

Contract Plans

For Construction of:

SR 305

EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

KITSAP COUNTY

A STATE PROJECT



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SHEET INDEX

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CO2.03

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503.01

S05.00

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505,40

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	7 AM 1/18/2022	LAST PRINTED BY:				FED.AID
SUBMITTAL DATE:	1/11/22	morin				PROJ.NO.
DESIGNED BY:	T. CASTOR	1/18/2022				*-WA-***
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE
CHECKED BY:	B. ENDRES	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062 CONTRACT NO.
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

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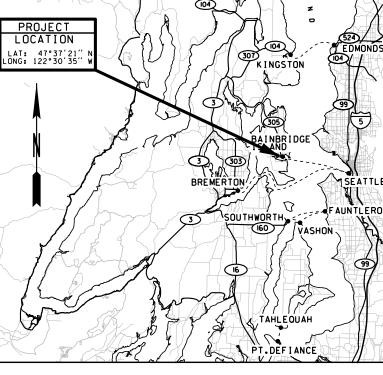
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Washington State Department of Transportation WASHINGTON STATE FERRIES



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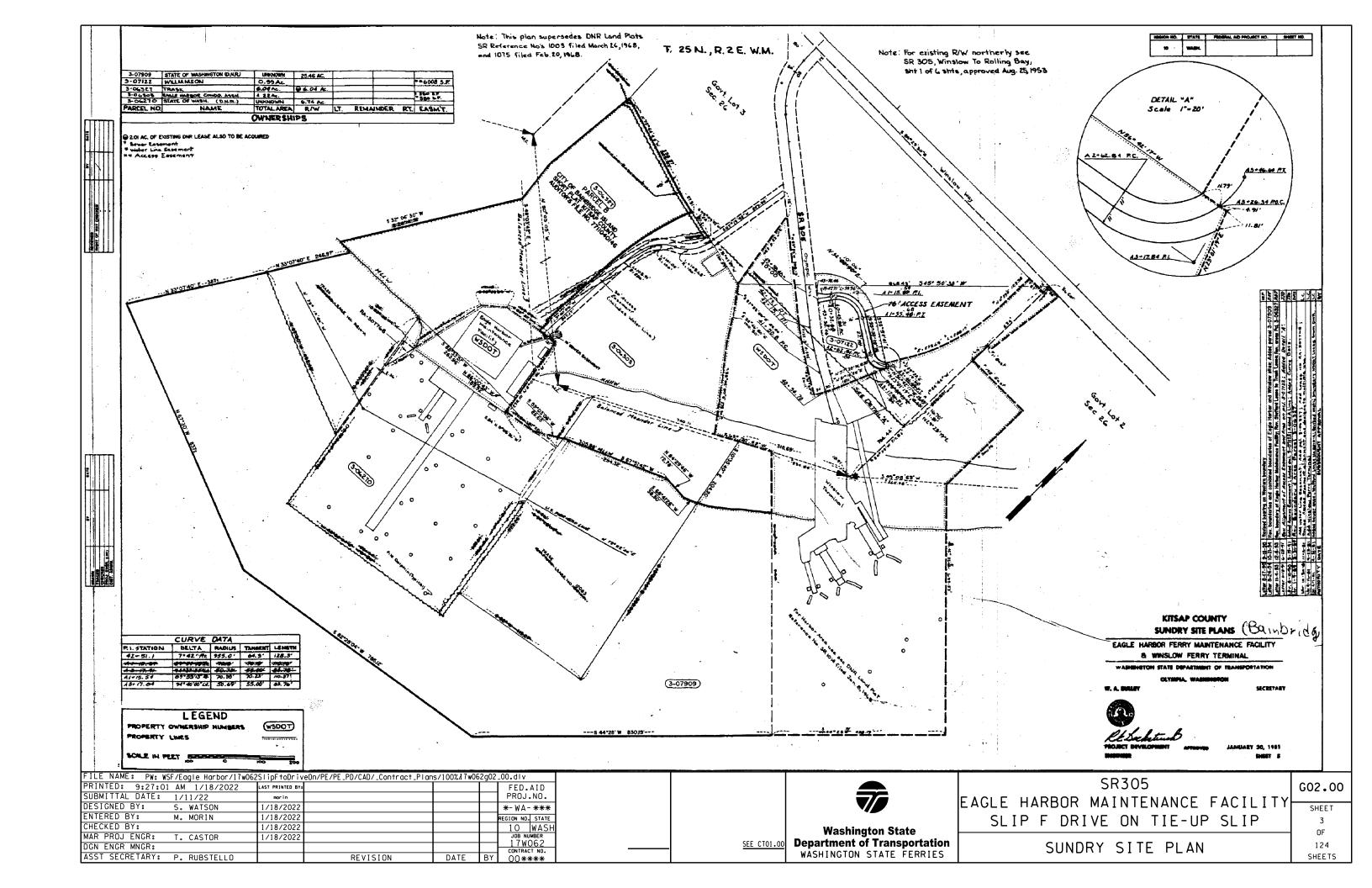
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SR305 LEAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP SHEET INDEX AND VICNITY MAP

G01.00

SHEET

2 OF 124 SHEETS



5/5/2022

SUMMARY OF QUANTITIES

		SUB-TOTAL	SUB-TOTAL				GROUP 1	GROUP 2	GROUP 3											
ITEM	TOTAL	SECTION	SECTION	STD.			CAPITAL	MAINT.	REIMBURSE							1				
NO	OLIANITITY	I-07.2(1)	I-07.2(2) OF	ITEM	UNIT	ITEM	FUNDS	FUNDS	FOR THIRD							1 1				
	QUANTITY	OF STANDARD	STANDARD	NO.			W1	X6	PARTY DAMAGE							1 1				
		SPECS	SPECS						D, 102							1 1				
				ĺ		PREPARATION	j <u> </u>		j i	İ		İ	ĺ			i i	ĺ		ĺ	
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	L.S.										1		
2	LUMP SUM		LUMP SUM			REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.											1		
3	LUMP SUM		LUMP SUM	0940	L.S.	DISPOSAL OF CREOSOTED MATERIAL	L.S.											1		
<u> </u>]		<u> </u>				!			<u> </u>	!	ļ		
						STRUCTURE	<u> </u>		<u> </u>							<u> </u>				
4	12450.00			4147		EPOXY-COATED ST. REINF. BAR	12,450.00		<u> </u>						<u> </u>	<u> </u>				
5	5.10		5.10			CONC. CLASS 4000 FOR DIAPHRAGM	5.10		<u> </u>				<u> </u>		1	<u> </u>		1		
6	48.20					CONC. CLASS 5000 FOR PIERS	48.20		<u> </u>		<u> </u>	<u> </u>	<u> </u>		1	1		<u> </u>		
7	9.00					FURNISHING STEEL PILE TIP OR SHOE - 24 IN DIA	9.00		<u> </u>		<u> </u>	<u> </u>	<u> </u>		1	1		<u> </u>		
8	16.00 8.00	<u> </u>				FURNISHING STEEL PILE TIP OR SHOE - 30 IN DIA FURNISHING STEEL PILE TIP OR SHOE - 36 IN DIA	16.00 8.00		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1 1	<u> </u>	<u> </u>	<u> </u>	
10	358.00	<u> </u>				FURNISHING ST. PILING 24 IN. DIAM. T = 1 IN.	358.00		<u> </u>		<u> </u> 	<u> </u> 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	
11	285.00	<u> </u>	285.00			FURNISHING ST. PILING 24 IN. DIAM. T = 1 IN. FURNISHING ST. PILING 30 IN. DIAM. T = 3/4 IN.	285.00		<u>. </u>	<u> </u> 	<u> </u> 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>1 </u>	<u> </u> 	<u> </u> 	<u>l</u>	<u> </u>
12	596.00	<u> </u>	596.00			FURNISHING ST. PILING 30 IN. DIAM. T = 3/4 IN.	596.00		<u>. </u>	<u> </u>	<u> </u> 	<u>l</u> l	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>l</u>	
13	308.00	<u> </u>	308.00			FABRICATING ST. FILING 30 IN. DIAM. T = 1 IN.	308.00		<u> </u>	<u> </u>	<u> </u>	<u>l</u>		<u> </u>	1			1	<u> </u>	
14	495.00		495.00			FABRICATING ST. PILING 30 IN. DIAM. T = 3/4 IN.	495.00		1 1				<u>-</u>		i I	i	<u> </u>	1	<u> </u>	
15	714.00		714.00			FABRICATING ST. PILING 36 IN. DIAM. T = 1 IN.	714.00		1		!	i	i		i	i i	i	i	i	
16	LUMP SUM	İ	LUMP SUM			FURNISH BUBBLE CURTAIN SYSTEM	L.S.		i			i	<u> </u>		İ	i	i	i	i	i
17	11.00	i	11.00			BUBBLE CURTAIN	11.00		i			i	i		İ	i	i	i	i	i
18	9.00					DRIVING ST. PILE 24 IN. DIAM.	9.00		i i			i	i		Ì	i i	i	i	i	i
19	16.00					DRIVING ST. PILE 30 IN. DIAM.	16.00		i i			i	i		Ì	i i	i	i	i	<u> </u>
20	2.00	i				DRIVING ST. PILE 36 IN. DIAM TOWER PILES	2.00		i i	i	i	i	i	i	i	i i	i	i	i	i
21	6.00	i	6.00			DRIVING ST. PILE 36 IN. DIAM FENDER PILES	6.00		i i	ĺ	i	i	i	i	i	i i	i	i	i	i
22	LUMP SUM	İ	LUMP SUM	8939	L.S.	STRUCTURAL STEEL - TRESTLE SPAN	L.S.		i i	ĺ		i	ĺ	İ	Ī	i i	i	i	ĺ	i
23	LUMP SUM	İ	LUMP SUM	8939	L.S.	STRUCTURAL STEEL - TRANSFER SPAN	L.S.		i i	ĺ		İ	ĺ	İ	Ī	i i	ĺ	i	ĺ	i
24	LUMP SUM		LUMP SUM	8939	L.S.	STRUCTURAL STEEL - WINGWALLS	L.S.											i		
25	LUMP SUM		LUMP SUM	8939	L.S.	STRUCTURAL STEEL - DOLPHINS	L.S.									1				
26	LUMP SUM		LUMP SUM	8943	L.S.	CHAIN AND HARDWARE - WINGWALLS	L.S.]		1		
27	LUMP SUM		LUMP SUM	8943	L.S.	CHAIN AND HARDWARE - DOLPHINS	L.S.]				
28	6.00		6.00	8975	EACH	MARINE FENDER TYPE 2	6.00											1		
29	6.00		6.00	8982	EACH	UHMW POLYETHYLENE RUBBING FACE FOR PILES	6.00											1		
30	6.00		6.00			TIMBER PILE REPAIR - TRASK AND BUILDING TRESTLE	<u> </u>	6.00	<u> </u>						<u> </u>	<u> </u>	1			
31	33048.00		33048.00			LEAD BALANCE BLOCKS	33,048.00		<u> </u>						<u> </u>	<u> </u>				
32	LUMP SUM	<u> </u>	LUMP SUM		L.S.	RELOCATED FLOATS	L.S.		<u> </u>			<u> </u>	!		<u> </u>	<u> </u>	!			
<u> </u>						L OTHER ITEMS] [<u> </u>						<u> </u>	1 !				
			LUMP CUIT			OTHER ITEMS] [<u> </u>			<u> </u>			<u> </u>	<u> </u>				
33	LUMP SUM	<u> </u>	LUMP SUM			GENERAL ELECTRICAL SPACE FEEDER REPAIR	L.S.		<u> </u>	1	<u> </u>	<u> </u>		<u> </u>	<u> </u>	1 1				
34		<u> </u>	LUMP SUM			GENERAL ELECTRICAL SB426 FEEDER REPAIR] [L.S.	<u> </u>		 	<u> </u>	<u> </u>		1	1 1	<u> </u>			
35		<u> </u>	LUMP SUM			HOIST SYSTEM	L.S.			1		<u> </u>	1	<u> </u>	<u> </u>	1 1			<u> </u>	
36		<u> </u>	2000.00	7715		COUNTERWEIGHT SYSTEM FORCE ACCOUNT REMOVAL OF OBSTRUCTION	L.S. 2,000.00	<u> </u>	<u> </u>			<u> </u>	1	<u> </u>	<u> </u>	1 1	<u> </u>	1	I	
38	2000.00 5000.00	<u> </u>	5000.00	9002		REIMB. FOR PROTECTED SPECIES MONITORING SUSPENSION	5,000.00		<u> </u>		<u> </u>	<u> </u> 	1	<u> </u>	<u> </u>	1 1	1	<u> </u>	<u> </u>	
39	LUMP SUM	<u> </u>	LUMP SUM	9002		PROTECTED SPECIES MONITORING SUSPENSION PROTECTED SPECIES MONITORING	5,000.00 L.S.		<u> </u>	 	<u> </u>	<u>l</u>	<u> </u>	<u> </u>		1 1	<u> </u>	<u> </u>	<u>I</u>	<u> </u>
40	LUMP SUM	<u> </u>	LUMP SUM	1905		MARINE SURVEYING	L.S.		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>
41	20.00	<u> </u>	20.00	1000		DERRICK BARGE	20.00		<u>. </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>l</u>	<u> </u>	
42	-1.00	<u> </u>		7728		MINOR CHANGE	-1.00		<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	1	1 1	<u> </u>	<u>l</u>	<u> </u>	
43		<u> </u>	LUMP SUM				L.S.		 	<u> </u> 	I	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
-70	LOWIN GOIN	<u> </u>	LOWI COM	1100	L.O.	10. 00. 2.11			1	l.				I	1	L				

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
LEGEND	1	305	188400	**	STATE
	2	305	188400	**	STATE
	3	305	188400	**	STATE

		REGION STATE	FEDERAL AID PROJECT. NO.		OD 205	SQ1
		10 WA			SK 305	ושכו
		10 10		Washington State	EAGLE HARBOR MAINTENANCE FACILITY	SHEET
		JOB NUMBER		Department of Transportation	SLIP F DRIVE ON TIE-UP SLIP	4
		17W062/1				OF
		CONTRACT NO			SUMMARY OF QUANTITIES	124
DATE	REVISION BY	000000				SHEETS

SUMMARY OF QUANTITIES

DOT_RGG900 5/5/2022

		SUB-TOTAL	SUB-TOTAL				GROUP 1	GROUP 2	GROUP 3								
ITEI NO	TOTAL QUANTITY	SECTION I-07.2(1) OF STANDARD SPECS		STD. ITEM NO.	UNIT	ITEM	CAPITAL FUNDS W1	MAINT. FUNDS X6	REIMBURSE FOR THIRD PARTY DAMAGE								
44	-1.00	1	-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00										
45	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE			5.00								
l i	1		1					1				1		1	1		

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
LEGEND	1	305	188400	**	STATE
	2	305	188400	**	STATE
	3	305	188400	**	STATE

		RE	EGION STATE	FEDERAL AID PROJECT. NO.		SR 305	SQ2	
		\dashv	10 WA		Washington State	EAGLE HARBOR MAINTENANCE FACILITY	SHEET	
			JOB NUMBER 17W062/1		Department of Transportation	SLIP F DRIVE ON TIE-UP SLIP		
			CONTRACT NO			SUMMARY OF QUANTITIES	124	
DATE	REVISION BY	Y	000000				SHEETS	

PROJECT LICENSED PROFESSIONAL CERTIFICATIONS

That ham

Tom Castor May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

Jeff Kilborn

May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stomp have been developed under my supervision as a licensed professional.

Chanas & Bertini

Tom Bertucci

May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as o licensed professional.

stearnch@wsdot.wa.gov

May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

John Frisby May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

Jan Teves

May 12, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

Robert Algazi

Robb Algazi

May 13, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

Noppadol P Lekhakul

May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

James Sims May 11, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

Antonio Gonzalez Jr

May 12, 2022

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.

As a Professional Engineer in direct respansible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision os a licensed professional.

NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS WHO HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

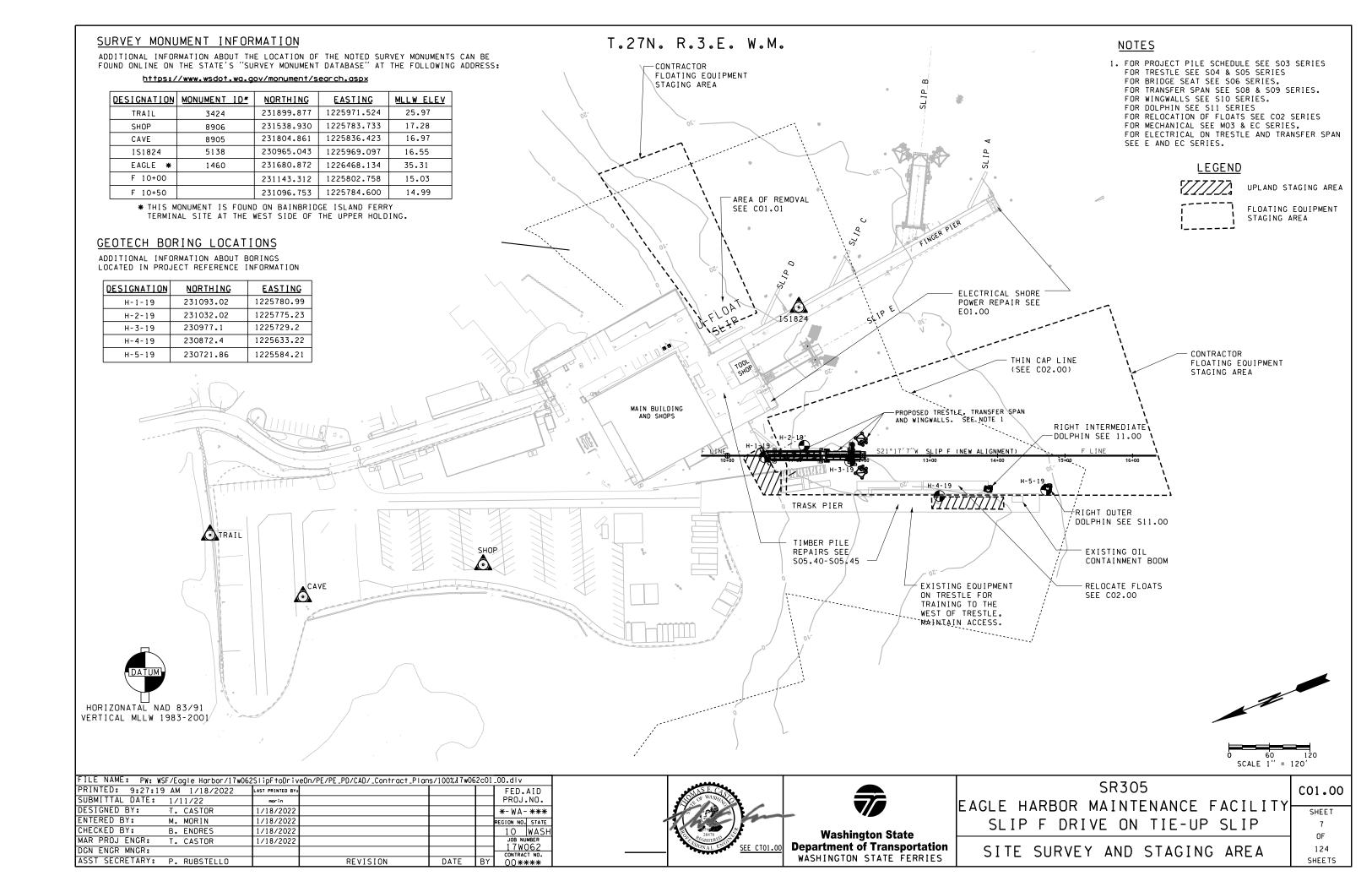
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	LAST PRINTED BY:				FED.AID
SUBMITTAL DATE: 1/11/22	morin				PROJ.NO.
DESIGNED BY:	1/18/2022			l .	*-WA-***
ENTERED BY: M. MORIN	1/18/2022	,			REGION NO. STATE
CHECKED BY:	1/18/2022				10 WASH
MAR PROJ ENGR: T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:					17W062
ASST SECRETARY: P. RUBSTELLO		REVISION	DATE	ВΥ	

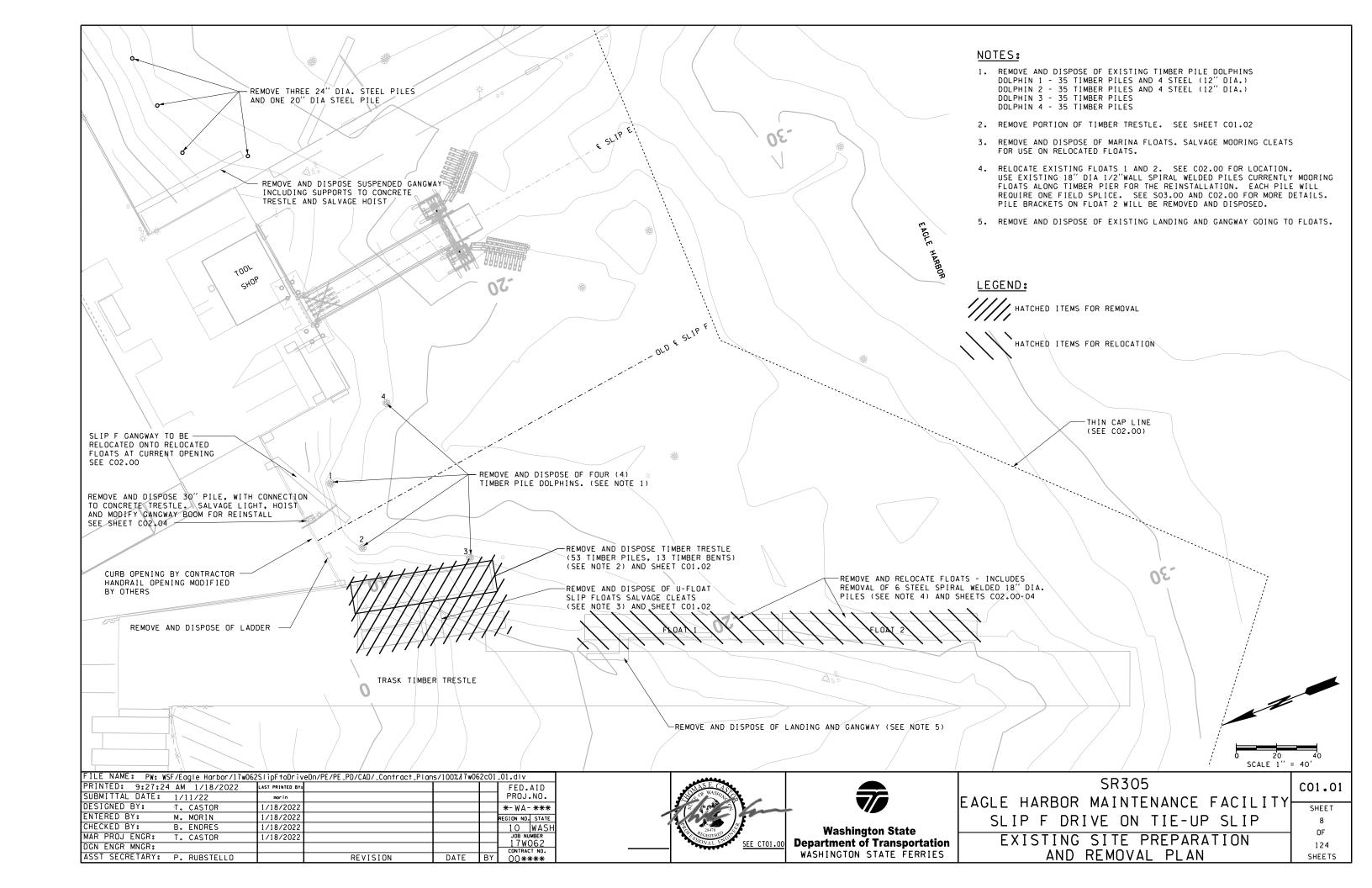


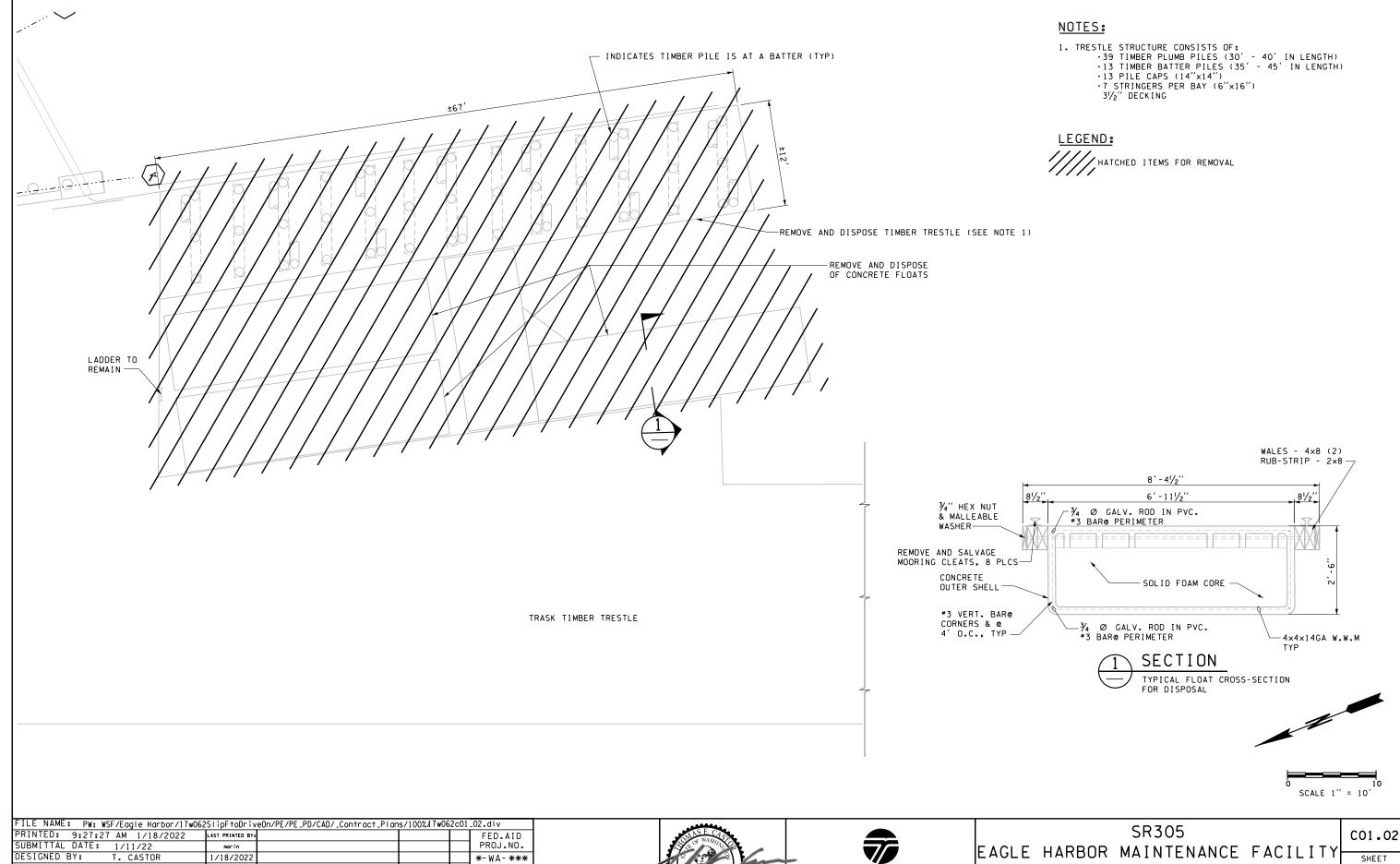
WASHINGTON STATE FERRIES

SR305	CT01.00
EAGLE HARBOR MAINTENANCE FACILITY	
LAGE HARDUR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	6
SETT TOTAL SIT THE ST SETT	OF.

SHEET OF 124 CERTIFICATION SHEET SHEETS







PRINTED: 9:27:2	7 AM 1/18/2022	LAST PRINTED BY:				FED.AID
SUBMITTAL DATE:	1/11/22	morin				PROJ.NO.
DESIGNED BY:	T. CASTOR	1/18/2022				*-WA-***
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE
CHECKED BY:	B. ENDRES	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

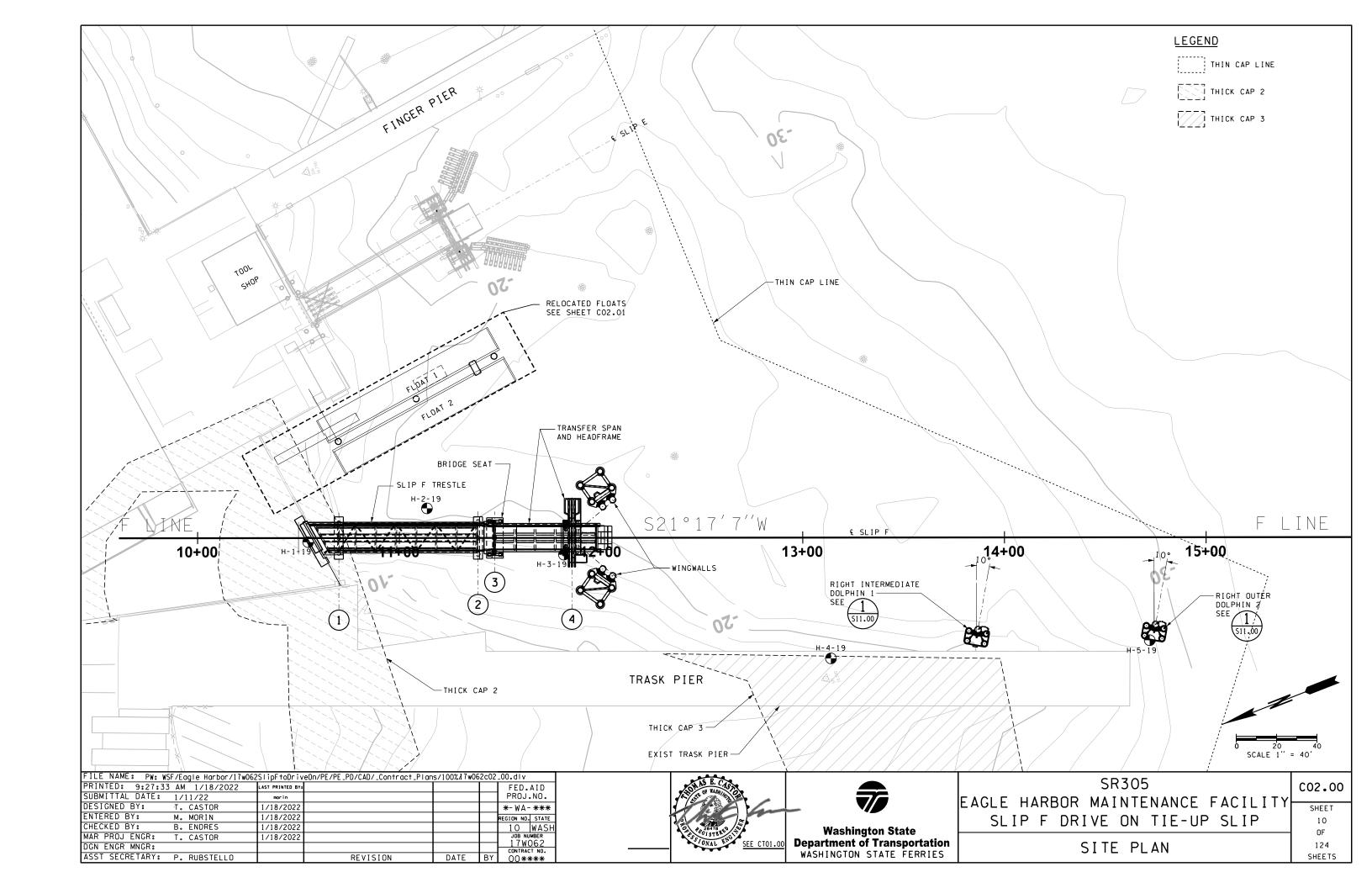


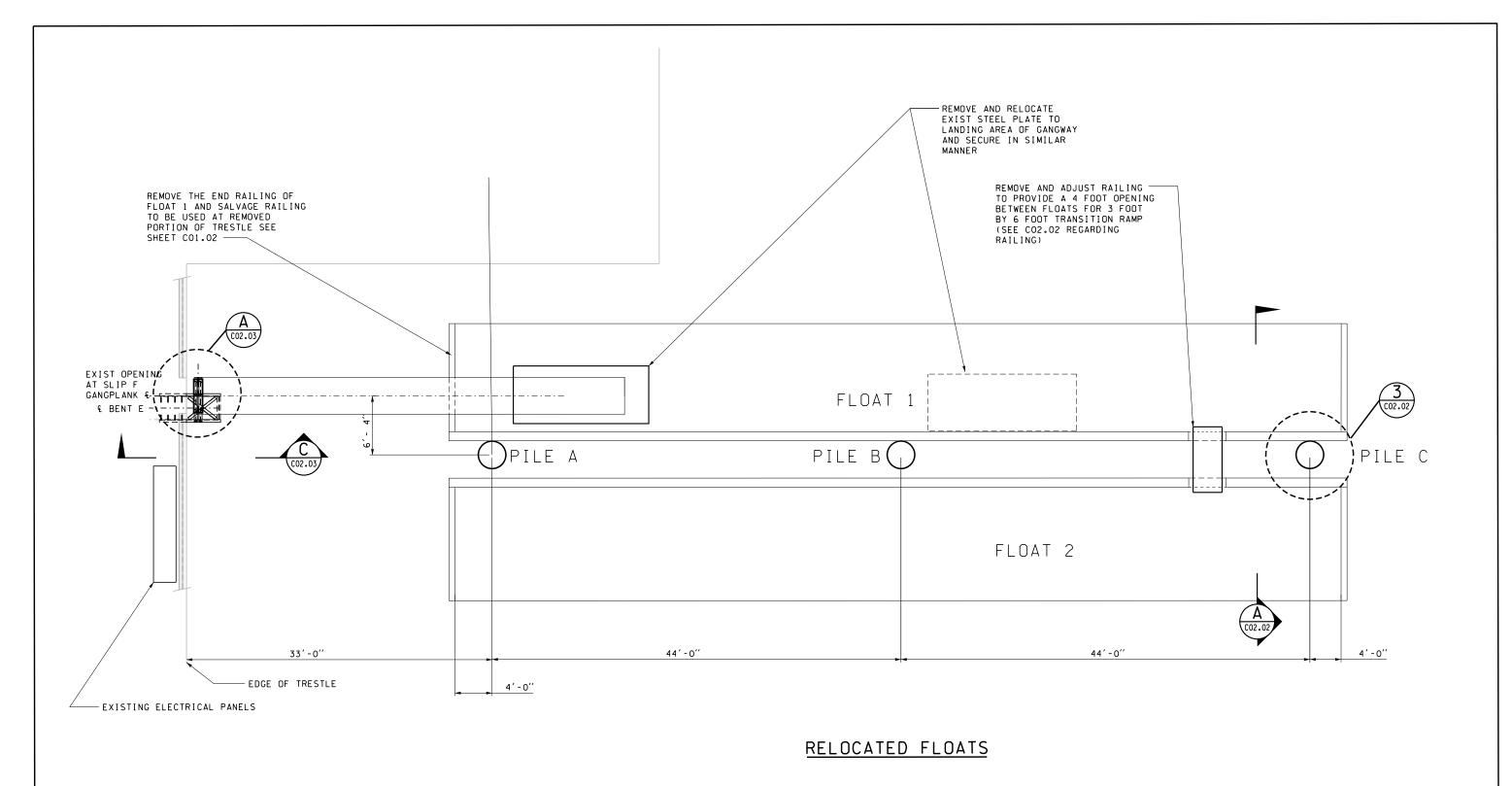


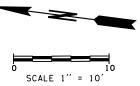
Washington State
Department of Transportation WASHINGTON STATE FERRIES

SLIP F DRIVE ON TIE-UP SLIP PARTIAL PIER DEMOLITION

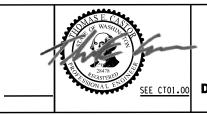
OF 124 SHEETS







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DESIGNED BY:	T. CASTOR	1/18/2022				*-WA-***			
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE			
CHECKED BY:	B. ENDRES	1/18/2022				10 WASH			
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER			
DGN ENGR MNGR:						17W062			
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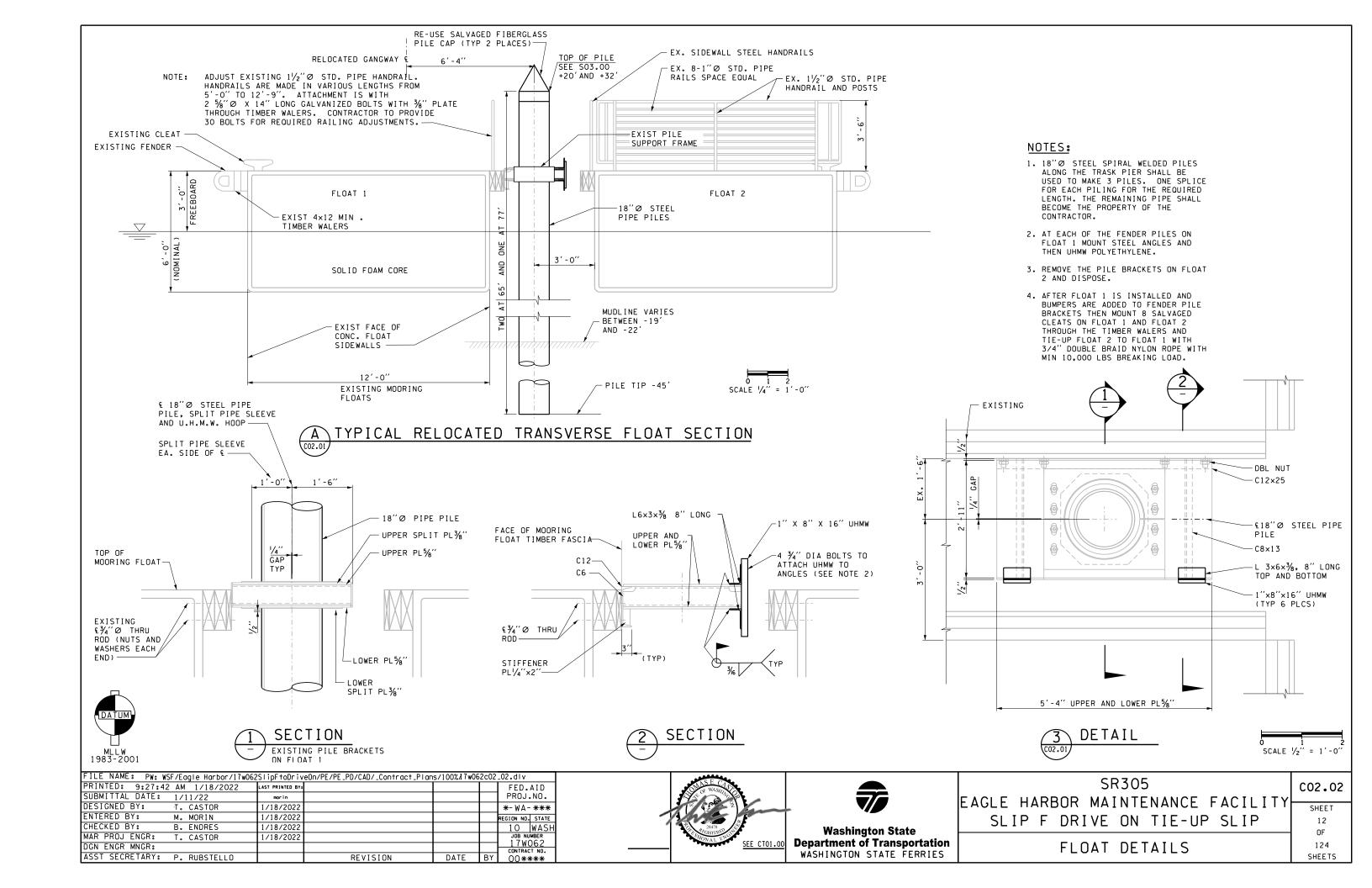


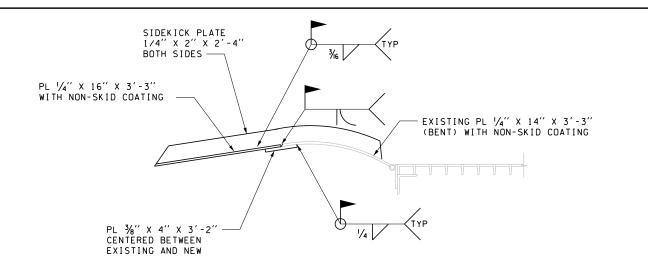


Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
RELOCATED FLOATS

Y CO2.01 Y SHEET 11 OF 124 SHEETS





GANGWAY TRANSITION COVERPLATE EXTENSION DETAIL

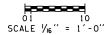
SCALE 1" = 1'-0'

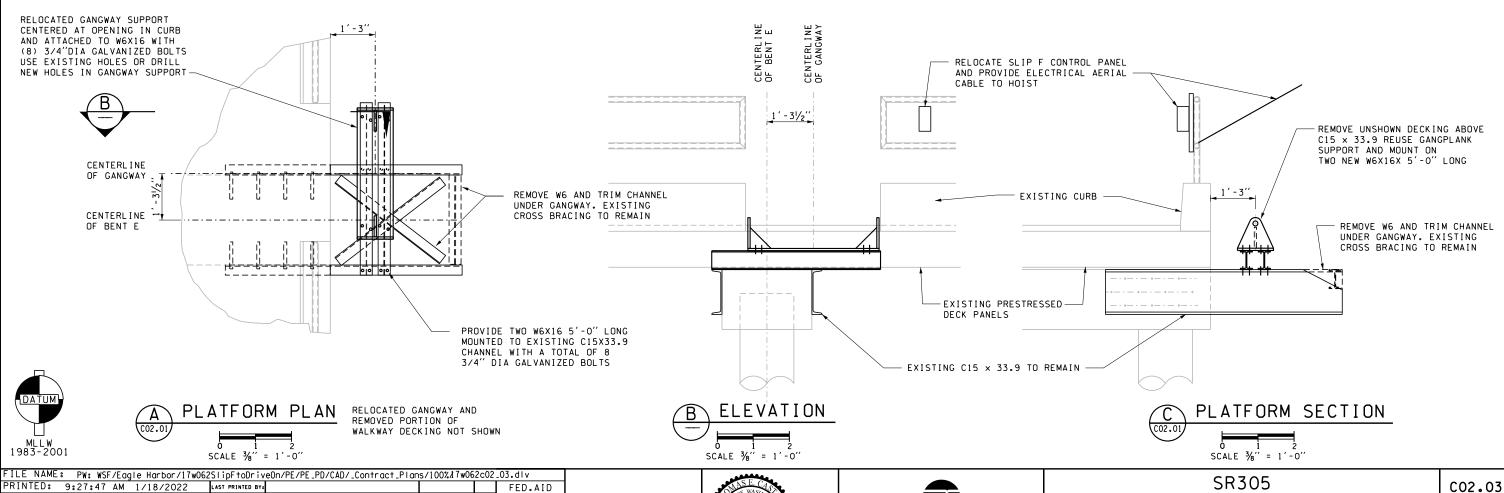
EXISTING SLIP F GANGWAY RELOCATED FOR
FLOAT ACCESS (MAIN GANGWAY 37'-6" LONG
AND 3'-9"WIDE)

MAX DECK
ELEV = +15.0' MLLW

MIN DECK
ELEV = -2.0' MLLW

GANGWAY OPERATIONAL RANGE OF MOTION





PRINTED: 9:27:47 AM 1/18/2022 LAST PRINTED BY FED.AID SUBMITTAL DATE: 1/11/22 PROJ.NO. morin DESIGNED BY: 1/18/202 T. CASTOR *-WA-** ENTERED BY: 1/18/202 M. MORIN GION NO. STATE CHECKED BY: B. ENDRES 1/18/2022 10 WASH MAR PROJ ENGR: JOB NUMBER 17W062 T. CASTOR 1/18/2022 DGN ENGR MNGR: ASST SECRETARY: P. RUBSTELLO REVISION DATE 00****





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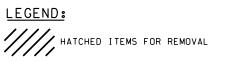
SR305
EAGLE HARBOR MAINTENANCE FACILITYSLIP F DRIVE ON TIE-UP SLIP
GANGWAY FLOAT DETAILS 1

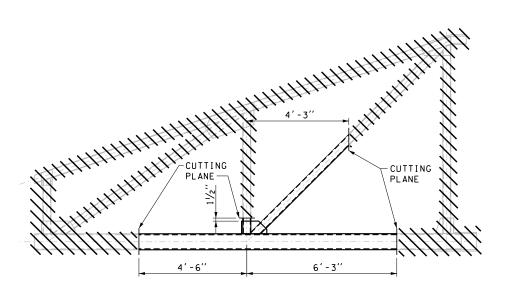
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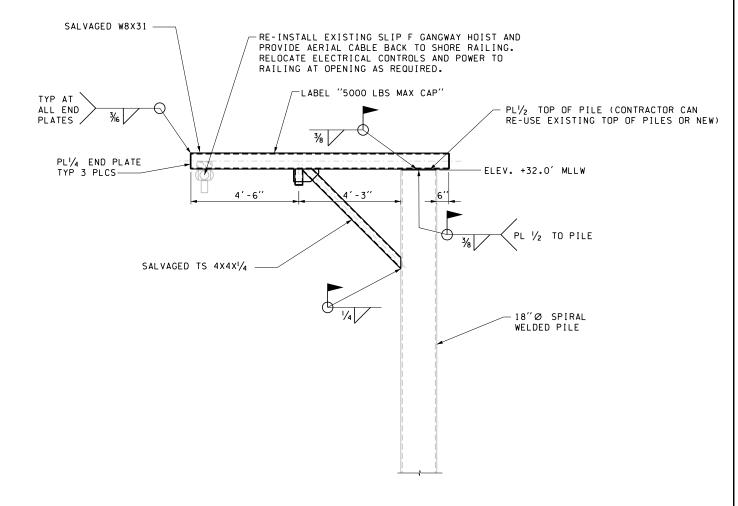
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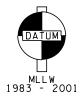
-FULL TONE ELEMENTS TO BE SALVAGED FROM EXISTING SLIP F TIE-UP GANGWAY THAT IS REMOVED. SEE CO1.01. -PARTIAL TONED AN DASHED ELEMENTS TO BE DEMOLISHED.

SALVAGE PORTION OF EXISTING SLIP F BOOM



ELEVATION OF RENOVATED BOOM

MODIFY EXISTING BOOM AND INVERT AND INSTALL SALVAGED PORTION



	gle Harbor/17w0629	SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plans	s/100% <i>1</i> 7w06	2c02	_04.dlv
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SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
GANGWAY FLOAT DETAILS 2

CO2.04
SHEET
14
OF
124
SHEETS

FΤ OBS OBSERVED AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY TOD GALV GALVANIZED (HOT DIP) AND TRANSPORTATION OFFICIALS OD OUTSIDE DIAMETER TOP GΑ GAUGE AC I AMERICAN CONCRETE INSTITUTE OPP OPPOSITE TOS GDR GIRDER AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION OHW ORDINARY HIGH WATER TRANSV GRD GROUND **ATTC** AMERICAN INSTITUTE OF TIMBER CONSTRUCTION PVMT PAVEMENT TYP GL GROUND LEVEL ANSI AMERICAN NATIONAL STANDARDS INSTITUTE PERCENT UFC ΛPΙ HAZMAT AMERICAN PETROLEUM INSTITUTE HAZARDOUS MATERIALS PILE, POWER ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS HS HIGH STRENGTH PCO PILE CUT-OFF AWS AMERICAN WELDING SOCIETY HSS HOLLOW STRUCTURAL SECTION PLCS UNO ABND ABANDONED HORIZ HORIZONTAL PL PLATE, PLATE STEEL VFRT AΒ ANCHOR BOLT НΜΔ HOT MIX ASPHALT PCF POUNDS PER CUBIC FOOT WAC ABS AMERICAN BUREAU OF SHIPPING IBC INTERNATIONAL BUILDING CODE PSF POUNDS PER SQUARE FOOT WSDOT ACP ASPHALT CONCRETE PAVEMENT ΙN PSI POUNDS PER SQUARE INCH AL T ALTERNATE INTERM INTERMEDIATE PLF POUNDS PER LINEAR FOOT WSF ALUM ALUMINUM ΙD INSIDE DIAMETER РΤ POINT W۷ APPROX APPROXIMATE ΙE INVERT ELEVATION PP POWER POLE BOP BOTTOM OF PLATE INVPRCS1 PRECAST BLDG BUILDING JB JUNCTION BOX PROJ PROJECTING BP BURIED POWER JΤ JOINT PVC POLYVINYL CHLORIDE BOT ВОТТОМ ΚВ KNEE BRACE R OR RAD RADIUS BRG BEARING ΚT REF REFERENCE CIPC CAST-IN-PLACE CONCRETE K-FT KIP-FOOT REINF REINFORCED CB CATCH BASIN KSI KIPS PER SQUARE INCH REQ'D REQUIRED CFM CUBIC FEET PER MINUTE L, LT LEFT CG CENTER OF GRAVITY RADIUS, ROUGH SAWN LB POUND CL OR € CENTER LINE RIGHT LF LINEAR FEET C TO C CENTER TO CENTER R/W RIGHT OF WAY LL LIVE LOAD CLR CLEAR RD ROAD COEFF COEFFICIENT LLH LONG LEG HORIZONTAL RS RISING STEM COL COLUMN LLV LONG LEG VERTICAL SCFM STANDARD CUBIC FEET PER MINUTE CONC CONCRETE LRFD LOAD AND RESISTANCE FACTOR DESIGN SCHEDULE CONST CONSTRUCTION LFD LOAD FACTOR DESIGN SHT SHEET CONT CONTINUOUS LOC LOCATION SIM SIMILAR COORD COORDINATE LONG LONGITUDINAL SOLAS SAFETY OF LIFE AT SEA CJ CONSTRUCTION JOINT LUM LUMINAIRE SQ SQUARE CJP COMPLETE JOINT PENETRATION MR MACHINE BOL SQ FT SQUARE FOOT CTSK COUNTERSUNK MAL MALLEABLE SQ IN SQUARE INCH CWT COUNTERWEIGHT МН MAN HOLE SQ YD SQUARE YARD D STORM DRAIN MANUFACTURER SPA DFT DRY FILM THICKNESS MΔX MAXIMUM SS, SST STAINLESS STEEL DL DEAD LOAD MHW MEAN HIGH WATER STD STANDARD DIA DIAMETER MHHW MEAN HIGHER HIGH WATER STA STATION DF-L DOUGLAS FIR-LARCH MEAN LOW WATER MLW STIFF STIFFENER DWG DRAWING MLLW MEAN LOWER LOW WATER STIR STIRRUP EΑ MICROPILE ST EL ELEVATION STREET EΡ EDGE OF PAVEMENT STR STRAIGHT MILES PER HOUR EST ESTIMATED SYMMETRICAL ABOUT NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988 EXIST EXISTING TOP, TON NGVD29 NATIONAL GEODETIC VERTICAL DATUM OF 1929 FCM FRACTURE CRITICAL MEMBER TEMP TEMPORARY NS FLGD FLANGED TFE TEFLON-FILLED ELASTOMER FAR SIDE NORTH, NORTHING FS ТМ TEMPORARY MICROPILE FLG NAD83 NORTH AMERICAN DATUM 1983 FLANGE ΤP TEMPORARY PILE FΗ FLAT HEAD NOM NOMINAL ТНК THICK FPS FEET PER SECOND NTS NOT TO SCALE THRII THROUGH FRE FIBER REINFORCED POLYMER NO. OR # NUMBER TOA TOP OF ASPHALT FS FEDERAL SPECIFICATION ON CENTER TOC TOP OF CONCRETE, TOP OF CURB FILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%17w062S00_01.dlv

DATE BY

STRUCTURAL PLANS SYMBOLS

WORK POINT

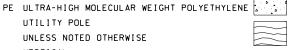
SOIL BORING LOCATION



STEEL PATTERN



CONCRETE PATTERN



WOOD PATTERN



FRACTURE CRITICAL MEMBER PRIMARY LIVE LOAD CARRYING TENSION MEMBER





DIAMETER



EXISTING STRUCTURE GRID



STRUCTURE GRID

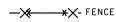
EXISTING PILE



REMOVAL ITEMS



LUMINAIRE POLE AND LUMINAIRE





ELEVATION (DISPLAYED IN FEET)

REBAR WITH STD HOOK AT ONE END

EL=XX.XX'

TOP OF DECK ELEVATION



TOP OF SLAB SPOT ELEVATION

WATERLINE ELEVATION



PILE MARK



UNITS SHOWN ARE IN FEET AND INCHES. ELEVATIONS AND STATIONS ARE SHOWN IN FEET, UNLESS OTHERWISE SPECIFIED.



LETTER IDENTIFIES SECTION OR VIEW.



IDENTIFIES SHEET NO ON WHICH SECTION, VIEW OR DETAIL IS SHOWN OR TAKEN FROM.



NUMBER IDENTIFIES DETAIL.

IDENTIFIES SECTION, VIEW OR DETAIL WHICH - IS TAKEN FROM OR SHOWN ON THE SAME SHEET.

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ENTERED BY: M. MORIN	1/18/2022		REGION NO. STATE
CHECKED BY: M. WRAY	1/18/2022		10 WASH
MAR PROJ ENGR: T. CASTOR	1/18/2022		JOB NUMBER
DGN FNGR MNGR:			17W062

REVISION

ASST SECRETARY: P. RUBSTELLO





Washington State Department of Transportation WASHINGTON STATE FERRIES

TOP OF DECK

TOP OF PILE

TOP OF STEEL

UNIFIED FACILITIES CRITERIA

WASHINGTON ADMINISTRATIVE CODE

WASHINGTON STATE DEPARTMENT

WASHINGTON STATE FERRIES

UNLESS NOTED OTHERWISE

OF TRANSPORTATION

WELDED WIRE FABRIC

WATER VALVE

TIMBER PILE

WITH

WORKING POINT

TRANSVERSE

				SF	R305	5				
EAGLE	Н	4RE	30R	MA:	INTE	ENANCE	F	ACI	LΙ	T١
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ABBREVIATIONS AND SYMBOLS

S00.01 SHEET 15

GENERAL NOTES

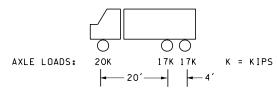
- 1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION STANDARD SPECIFICATIONS, DATED 2022,
- 2. ALL DIMENSIONS AND ELEVATIONS ARE HORIZONTAL AND VERTICAL UNLESS OTHERWISE NOTED.
- 3. THE DIMENSIONS SHOWN ON THE CONTRACT PLANS FOR EXISTING STRUCTURES ARE BASED ON CONSTRUCTION RECORDS AND FIELD SURVEY DATA. RECORD DRAWINGS ARE NOT NECESSARILY COMPLETE NOR ACCURATE. FIELD CONDITIONS MAY VARY FROM THE RECORD DRAWINGS AND THE CONTRACT PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO SHOP FABRICATION. THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS AND SURVEY DATA.
- 4. THE LOCATION OF ALL THE UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 5. PERMANENT VEHICLE STRUCTURE DESIGN LIFE IS 75 YEARS.

DESIGN CODES

- 1. AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH 2012, 2014 AND 2015 INTERIM REVISIONS.
- 2. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION, SUPPLEMENTED WITH WSDOT BRIDGE DESIGN MANUAL LRFD.
- 3. AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS 2ND EDITION, WITH 2015 INTERIM REVISIONS AND ASSOCIATED REFERENCE DOCUMENTS.
- 4. DESIGN OF COMPONENTS IS IN CONFORMANCE WITH ASCE 7-16.
- 5. LADDERS SHALL MEET THE REQUIREMENTS OF WAC 296-876-500.

DESIGN LOADING

1. TRESTLE AND TRANSFER SPAN ARE DESIGNED FOR THE WSF MAINTENANCE TRUCK.



- 2. MAINTENANCE HANGERS ARE DESIGNED TO SUPPORT THE TRANSFER SPAN AND THE WSF MAINTENANCE TRUCK IN ANY POSITION ON THE SPAN WITH COUNTERWEIGHT SUPPORT AND NO SUPPORT FROM THE VESSEL ON THE OFFSHORE END.
- FUNCTIONAL EVALUATION EARTHQUAKE (FEE).
- A) SAFETY EVALUATION EARTHQUAKE HAS 7% PROBABILITY OF EXCEEDENCE IN 75 YEARS, FOR A 1000 YEAR RETURN PERIOD.
- B) FUNCTIONAL EVALUATION EARTHQUAKE HAS A 30% PROBABILITY OF EXCEEDANCE
- IN 75 YEARS, FOR A 210 YEAR RETURN PERIOD.
- C) IMPORTANCE CLASSIFICATION: NORMAL
- D) SITE CLASS D FOR TRESTLE, TRANSFER SPAN AND HEADFRAME
- E) THE EARTHQUAKE RESISTING SYSYTEM WILL CONSIST OF A DUCTILE SUBSTRUCTURE WITH ESSENTIALLY ELASTIC SUPERSTRUCTURE.
- 4. WIND DESIGN FOR MAIN WIND FORCE RESISTING STRUCTURES IS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, BASIC WIND SPEED 110 MPH, PRESSURE EXPOSURE AND ELEVATION COEFFICIENT 1.25, GUST FACTOR 1.0, DRAG COEFFICIENT 1.6, STRUCTURE HEIGHT BASED ON MLLW = 0.0'
- 5. FALL ARREST SYSTEMS SHALL BE CONTRACTOR DESIGNED TO MEET THE REQUIREMENTS OF WAC296-155-24613. ANCHORAGES MUST BE CAPABLE OF SUPPORTING A 5000 LB ULTIMATE LOAD IN ANY DIRECTION.

CONCRETE

- 1. ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF STD. SPEC. SECTION 6-02.2 AND SPECIAL PROVISIONS.
- 2. THE CLASS OF CONCRETE TO BE USED SHALL BE THE FOLLOWING, UNLESS NOTED OTHERWISE
 - a. PIER 1, 2, AND 3 PILE CAPS: CLASS 5000 B. TOPPING SLAB: CLASS 4000

REINFORCING STEEL

- 1. ALL REINFORCING STEEL EXCEPT FOR WELDED WIRE FABRIC, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.
- 2. ALL BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH STD. SPEC. SECTIONS 6-02.3(24)H AND 9-07.3 UNLESS OTHERWISE NOTED.
- 3. SPLICES OF REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO LRFD, 8TH EDITION, UNLESS NOTED OTHERWISE.
- 4. ALL WELDING SHALL CONFORM TO AWS D1.4-2018 REINFORCING STEEL AND STD SPEC. SECTION 6-02.3(24)E.
- 5. UNLESS OTHERWISE SPECIFIED, THE MINIMUM CLEAR COVER FROM FACE OF CONCRETE TO FACE OF ANY REINFORCING STEEL SHALL BE 3 INCHES.
- 6. HEADED STEEL REINFORCING BARS SHALL CONFORM TO STD. SPEC. 9-07.2 AND ASTM A970 AND SHALL BE FORGED. HEADED DIMENSIONS SHALL CONFORM TO ASTM A970 TALBLE 1 ON THIS SHEET.

TABLE 1										
BAR SIZE	#6	#7	#8	#11	#13					
HEAD THICKNESS (IN)	0.39	0.44	0.50	0.70	1.02					
HEAD DIAMETER (IN)	1.69	1.97	2.25	3.19	3.82					

NONSHRINK GROUT

1. GROUT SHALL BE NONSHRINK TYPE 2 IN ACCORDANCE WITH STD SPEC. SECTION 9-20.3(2).

STRUCTURAL STEEL

- 1. W-SECTIONS AND PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50, MIN. REQ'D. YIELD STRENGTH Fy = 50 KSI.
- 2. BARS, CHANNELS, AND ANGLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM 709. GRADE 36 MIN. REO'D YIELD STRENGTH Fy=36 KSI, UNLESS
- 3. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE C, MIN Fy= 50 KSI
- TWO LEVEL SEISMIC PERFORMANCE CRITERIA: SAFETY EVALUATION EARTHQUAKE (SEE), AND 4. PIPE, NOT INCLUDING PILES, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A53, GRADE B MIN YIELD FY=35KSI
 - 5. HIGH STRENGTH BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F3125, GRADE A325, TYPE 1. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563. WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F436.
 - 6. STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM A193 GRADE B8M UNLESS NOTED OTHERWISE. NUTS SHALL CONFORM TO ASTM A194, GRADE 8M AND WASHERS SHALL CONFORM TO ASTM A240 TYPE 316 AND THE GEOMETRIC REQUIREMENTS OF ANSI
 - 7. THREADED ANCHOR RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554. GRADE 55. MIN Fy=55 KSI, AND SHALL BE WELDABLE, MEETING SUPPLEMENTARY REQUIREMENT S1.
 - 8. WELDED HEADED STUDS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108 MIN Fy= 50 KSI.

STRUCTURAL STEEL

- 9. ELEMENTS MARKED (FCM) ARE FRACTURE CRITICAL ELEMENTS AND SHALL MEET THE FRACTURE CONTROL REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND AWS D1.5.
- 10. ELEMENTS MARKED WARE PRIMARY LOAD CARRYING TENSION MEMBERS OR TENSION COMPONENTS OF FLEXURAL MEMBERS AND SHALL MEET THE LONGITUDINAL CHARPYV-NOTCH TESTS AS DESCRIBED IN THE SPECIAL PROVISIONS.
- 11. 🕉 DENOTES OPTIONAL TENSION BUTT SPLICE FOR ELEMENTS OF PLATE GIRDERS REQUIRING RADIOGRAPHIC INSPECTION.
- 12. TRESTLE AND TRANSFER SPAN RAILING AND POSTS ARE SECONDARY MEMBERS AND DO NOT REQUIRE CVN TESTING.

WELDING STRUCTURAL STEEL

- 1. ALL WELDING SHALL CONFORM TO AWS D1.1-2020 STRUCTURAL WELDING CODE STEEL
- 2. IN ADDITION, WELDING OF TRESTLE PLATE GIRDER, FLOOR BEAMS, AND STRINGERS SHALL CONFORM TO AWS D1.5 BRIDGE WELDING CODE 2020.
- 3. ALL WELDING OF STAINLESS STEEL SHALL CONFORM TO AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL
- 4. ALL HSS TUBE TO TUBE WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1 2020 PREQUALIFIED JOINT DETAILS, AND THE SPECIAL PROVISIONS.
- 5. WELDED HEADED STUDS SHALL BE INSTALLED BY MEANS OF STUD WELDING EQUIPMENT IN ACCORDANCE WITH AWS D1.1-2010 SECTION 7 STUD WELDING.
- 6. SEE STD. SPEC. SECTION 6-03.3(25) FOR FURTHER INFORMATION ON WELDING AND SECTION 6-03.3(25)A AND THE SPECIAL PROVISIONS FOR FURTHER INFORMATION
- 7. ALL HOLLOW STRUCTURAL SECTIONS SHALL BE CAPPED AT THEIR ENDS WITH 1/4-INCH PLATES WITH SEAL WELD GROUND SMOOTH, UNLESS OTHERWISE NOTED.

COATING

- 1. ALL STEEL AND HARDWARE SHALL BE COATED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- 2. WHERE GALVANIZING IS INDICATED, HOT DIP GALVANIZE STEEL MEMBERS AND ASSEMBLIES AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
- 3. EXCEPT FOR STAINLESS STEEL BOLTS, HOT DIP GALVANIZE ALL BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH AASHTO M232, OR ASTM F2329, AS APPLICABLE.
- 4. HOT-DIP GALVANIZED SURFACES ALTERED OR DAMAGED BY CONSTRUCTION OR HANDLING SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780.
- 5. SEE SPECIAL PROVISIONS FOR PAINT COLOR.

EARTHQUAKE RESISTING SYSTEM

PER AASHTO GUIDE SPECS FOR LRFD SEISMIC BRIDGE DESIGN, THE DESIGN IS BASED ON A DUCTILE SUBSTRUCTURE WITH ESSENTIALLY ELASTIC SUPERSTRUCTURE. ALTHOUGH DESIGNED TO REMAIN ELASTIC IN THE SEE, THE PILE TO CAP CONNECTIONS ARE DUCTILE, AND PILE CAPS AND SUPERSTRUCTURE ARE CAPACITY-PROTECTED TO THE HINGING MOMENTS OF THESE CONNECTIONS. THE HEADFRAME BEAMS AND PILES ARE ALSO EXPECTED TO REMAIN ELASTIC IN THE SEE. HEADFRAME BEAM TO PILE CONNECTIONS ARE CAPACITY-PROTECTED AGAINST FULL PLASTIC HINGING IN THE HEADFRAME BEAMS TO ENSURE A DUCTILE FRAME. ALL ELEMENTS WILL REMAIN ELASTIC AND DAMAGE-FREE AT THE FEE LEVEL EVENT.

FRP GRATING

GRATING SHALL BE TWO-WAY SPANNING MOLDED FIBER-REINFORCED POLYMER GRATING. MINIMUM MANUFACTURER'S RECOMMENDED LOAD CAPACITY SHALL BE 100 PSF FOR A 3'-6" SPAN AT A RATED DEFLECTION OF 3/8" OR LESS. GRATING SHALL HAVE INTEGRAL GRIT NON-SKID TOP SURFACE. EACH INDIVIDUAL SEGMENT OF GRATING SHALL HAVE A MINIMUM OF FOUR ATTACHMENT POINTS CONSISTING OF STAINLESS STEEL CLIPS AND THROUGH BOLTS ATTACHED TO BEAM OR CHANNEL FLANGES.

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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****		





Washington State **Department of Transportation** WASHINGTON STATE FERRIES

SR305 LEAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

TRESTLE & T-SPAN GENERAL NOTES I

SHEET 16 ΩF 124

S00.02

STEEL DECK GRATING

STEEL DECK GRATING FOR TRESTLE AND TRANSFER SPAN SHALL CONFORM TO ONE OF THE FOLLOWING:

- 1. OHIO GRATING INC (OGI) 37-R-5 HEAVY DUTY BRIDGE DECK W/ SERRATED CONNECTING BARS. BEARING BARS SHALL BE 5" X 1/4" AT
- 2. GRATING PACIFIC 37-R-5 SERRATED SURFACE BRIDGE DECKING. BEARING BARS SHALL BE 5" X 1/4" AT 2 9/16" SPACING.
- 3. OR APPROVED EQUAL. DECK GRATING SHALL CONSIST OF 5" DEEP X 1/4" WIDE BEARING BARS AT 2 3/8" MINIMUM AND 2 9/16" MAXIMUM SPACING, WITH 1" X 1/4" WELDED CROSS BARS AT 2" SPACING MAXIMUM. BARS SHALL BE SERRATED. GRATING SHALL BE RATED FOR AASHTO H-15 WHEEL LOADS AND ACTUAL CLEAR SPAN.

ALL GRATING SEGMENTS SHALL BE BANDED AND HOT-DIP GALVANIZED.

<u>wood</u>

TIMBER BOLT/LAG CONNECTIONS

BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM307. INSTALLATION OF BOLTS AND LAG SCREWS SHALL BE PER 6.02.3(17) I

AFTER INSTALLATION OF THE NUT THE BOLT THREADS SHALL BE BURRED.

ALL CUT SURFACES, SPIKE AND BOLT HOLES, AND CONTACT SURFACES SHALL BE TREATED IN ACCORDANCE WITH SECTION 6-04.3(4).

ALL UNUSED SPIKE AND BOLT HOLES SHALL BE COMPLETELY FILLED WITH UNCOMPRESSIBLE MATERIAL APPROVED BY THE ENGINEER..

HOLES DRILLED IN TIMBER PILES SHALL BE ON THE CENTERLINE OF THE PILES/POSTS, UNLESS NOTED OTHERWISE.

TIMBER-TO-TIMBER AND TIMBER-TO-STEEL CONNECTIONS SHALL HAVE NUTS TIGHTENED TO 100 FOOT-POUNDS TORQUE.

CONSTRUCTION ACCESS AND LOAD LIMITS

CONSTRUCTION EQUIPMENT ON WSF STRUCTURES

IN ACCORDANCE WITH STANDARD SPECIFICATION 1-07.7 FOR LOAD-LIMITS, THE CONTRACTOR SHALL SUBMIT TYPE 3E WORKING DRAWINGS AND CALCULATIONS, DESCRIBING THE LOCATION OF CONSTRUCTION EQUIPMENT, INCLUDING CRANES, OUTRIGGERS, GRILLAGE BEAMS, AND EQUIPMENT TRACKS RELATIVE TO THE WSF STRUCTURES. SUPPORTING CALCULATIONS SHALL SHOW THE LOADS AND LOAD PATH, AND THE CAPACITY OF THE EXISTING WSF TERMINAL STRUCTURES TO SUPPORT CONSTRUCTION LOADS, INCLUDING THE DECK, BEAMS, PILE CAPS, AND TRESTLE PILES.

LOAD FACTORS FOR DETERMINING FACTORED CONSTRUCTION LOADS ARE BASED ON THE WSDOT BRIDGE DESIGN MANUAL, LRFR METHOD SECTION 13.1.1, AS FOLLOWS:

LIVE LOAD FACTOR 10%. SEE NOTE 1 IMPACT FACTOR DEAD LOAD FACTOR FOR STRUCTURAL COMPONENTS AND ATTACHMENTS 1.25 WEARING SURFACE LOAD FACTOR 1.5

1. THE IMPACT FACTOR APPLIES TO LIVE LOAD BUT IS NOT REQUIRED TO BE APPLIED TO FOUNDATION COMPONENTS THAT ARE BELOW THE GROUND SURFACE.

WSF WILL PROVIDE RECORD DRAWINGS OF THE EXISTING STRUCTURES.

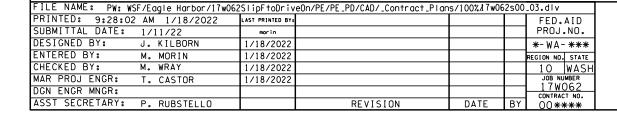
TIDAL DATUM

1. TIDAL DATUM MLLW = 0.0', BASED ON 83-01 EPOCH. NOTE THAT REFERENCE DRAWINGS SHOWING OLDER STRUCTURES MAY BE BASED ON AN EARLIER EPOCH AND A CONVERSION FACTOR IS REQUIRED TO CONVERT ELEVATIONS FROM DIFFERENT EPOCHS. MLLW BASED ON THE 83-01 EPOCH IS 0.17 FT HIGHER THAN MLLW BASED ON THE 60-78 EPOCH.

2. DESIGN TIDAL INFORMATION:

EXTREME LOW WATER: -4.88 FT EXTREME HIGH WATER: 14.60 FT W/ SLR: 15.68 FT

SLR IS SEA LEVEL RISE, TRANSFER SPAN HAS BEEN ELEVATED BY 1.63 RELATIVE TO THE YARD PIER TRESTLE. THE PROPOSED TRESTLE SLOPES TO ACCOMMODATE THIS TRANSITION FROM THE SPAN TO THE EXISTING TRESTLE.







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DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS FOR BERTHING AND MOORING STRUCTURES ARE IN ACCORDANCE WITH WSF TERMINAL DESIGN MANUAL.

LADDERS HAVE BEEN DESIGNED IN ACCORDANCE WITH WASHINGTON ADMINISTRATIVE CODE 296-56.

CONSTRUCTION SPECIFICATIONS

ALL MATERIAL AND WORKMANSHIP SHOWN IN THE CONTRACT PLANS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. DATED 2022.

ALL DIMENSIONS AND ELEVATIONS ARE HORIZONTAL AND VERTICAL UNLESS OTHERWISE NOTED.

THE DIMENSIONS SHOWN ON THE CONTRACT PLANS FOR EXISTING STRUCTURES ARE BASED ON CONSTRUCTION RECORDS AND FIELD SURVEY DATA. RECORD DRAWINGS ARE NOT NECESSARILY COMPLETE NOR ACCURATE. FIELD CONDITIONS MAY VARY FROM THE RECORD DRAWINGS AND THE CONTRACT PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO SHOP FABRICATION. THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS AND SURVEY DATA.

PLANS OF EXISTING STRUCTURES NOT INCLUDED IN THE CONTRACT PLANS ARE AVAILABLE FOR REVIEW AT THE OFFICE OF THE ENGINEER.

TIDAL DATA FOR EAGLE HARBOR

SOURCE: +11.31 FT MHHW NAVD88: +2.51 FT O.OO FT (DATUM) MLLW:

DESIGN TIDAL RANGE

+14.60 FT MLLW MAXIMUM: MINIMUM: -4.98 FT MLLW

SURVEY DATUM

WASHINGTON STATE PLANE NORTH 4601 HORIZONTAL DATUM: NAD 83/91 VERTICAL DATUM:

FIXED DOLPHIN BERTHING AND MOORING DESIGN CRITERIA

DESIGN VESSEL PARTICULARS

VESSEL CLASS:

LAY-UP (LIGHT) VESSEL ISSAQUAH 130 JUMBO MARK II DISPLACEMENT (LONG TONS): 2553 4802 I FNGTH (FT): 328.50 460.17 BFAM (FT): 78.67 90.00 DRAFT (FT): 14.31 16.24 VEHICLE DECK FREEBOARD (FT): 8.85 9.09

DESIGN ENERGY CALCULATION

DESIGN ENERGIES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE UNIFIED FACILITIES CRITERIA (UFC) DESIGN: PIERS AND WHARVES (UFC 4-152-01 24 JANUARY 2017)

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WINGWALLS

TYPE I DESIGN VELOCITY: 0.75 KNOTS 140 KIP-FT PER WW OR TYPE I DESIGN ENERGY: 280 KIP-FT TOTAL TYPE III DESIGN VELOCITY: 2.0 KNOTS TYPE III DESIGN ENERGY: 1550 KIP-FT PER WW OR 3100 KIP-FT TOTAL

STRUCTURAL STEEL NOTES

STEEL PORTIONS OF ALL NON-VEHICULAR STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

MATERIALS

ROLLED SHAPES AND PLATES (FOR NON-VEHICULAR STRUCTURES) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 GRADE 50 OR ASTM A572 GRADE 50.

MIN. REO'D. YIELD STRENGTH Fy = 50 KSI

BARS AND ANGLES (FOR NON-VEHICULAR STRUCTURES) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.

MIN. REO'D. YIELD STRENGTH Fy = 36 KSI

RECTANGULAR STRUCTURAL TUBING (HSS RECTANGULAR SECTIONS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 500 GRADE B.

MIN. REO'D. YIELD STRENGTH Fy = 46 KSI

ROUND STRUCTURAL TUBING (HSS ROUND SECTIONS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B.

MIN. REO'D. YIELD STRENGTH Fy = 42 KSI

PIPE (NPS 4 AND OVER) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A139 GRADE D.

MIN. REQ'D. YIELD STRENGTH Fy = 46 KSI

HIGH STRENGTH BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F3125 GR A325. TYPE 1. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563. WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F436.

ALL OTHER BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563. WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F844.

WELDED HEADED STUDS SHALL CONFORM TO THE REQUIREMENTS

MIN. REO'D. YIELD STRENGTH Fy = 50 KSI

LADDERS SHALL BE FABRICATED AS DESCRIBED BELOW UNLESS

RAILS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A53 GRADE B.

MIN. REO'D. YIELD STRENGTH Fy = 35 KSI

RUNGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706. LADDERS SHALL BE COATED OR GALVANIZED AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

STEEL RAILING AND GUARDRAIL RAILS AND POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A53 GRADE B.

MIN. REQ'D. YIELD STRENGTH Fy = 35 KSI

EACH RAIL POST ASSEMBLY SHALL BE SHOP-WELDED IN AS LARGE A SECTION AS PRACTICAL TO AVOID MULTIPLE FIELD-WELDED CONNECTIONS.

CONTRACTOR SHALL SUBMIT ASSEMBLY DETAILS FOR APPROVAL BEFORE FABRICATION.

ALL RAILING, SUPPORT POSTS AND THEIR WELDED CONNECTIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 123 AFTER FABRICATION.

WELDING

ALL WELDING OF STRUCTURAL STEEL FOR NON-VEHICULAR STRUCTURES AND OF HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ANSI/AWS D1.1-2020 STRUCTURAL WELDING CODE - STEEL.

WELDED HEADED STUDS SHALL BE INSTALLED BY MEANS OF STUD WELDING EQUIPMENT IN ACCORDANCE WITH ANSI/AWS D1.1-2020 SECTION 7 STUD WELDING.

SEE SECTION 6-03.3(25) FOR FURTHER INFORMATION ON WELDING AND SECTION 6-03.3(25)A AND THE SPECIAL PROVISIONS FOR FURTHER INFORMATION ON WELDING INSPECTION.

WHERE OTHER FILLER METALS AND PROCESSES HAVE NOT BEEN SPECIFIED, USE E70XX ELECTRODES AND THE SUBMERGED ARC WELDING METHOD.

ALL WELDED CONNECTIONS SHALL INCLUDE A SEAL WELD. UNLESS OTHERWISE NOTED.

ALL HOLLOW STRUCTURAL SECTIONS SHALL BE CAPPED AT THEIR ENDS WITH 1/4-INCH PLATES WITH SEAL WELD GROUND SMOOTH, UNLESS OTHERWISE NOTED.

COATING

ALL STEEL SHALL BE COATED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M232.

HOT-DIP GALVANIZED SURFACES ALTERED OR DAMAGED BY CONSTRUCTION OR HANDLING SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780.

CONCRETE NOTES

CONCRETE PORTIONS OF ALL NON-VEHICULAR STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

MATERIALS

ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6-02.2

THE CLASS OF CONCRETE TO BE USED SHALL BE THE FOLLOWING: DOLPHIN DIAPHRAGM: 4000

REINFORCEMENT NOTES

MATERIALS

ALL WELDED STEEL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.

ALL NON-WELDED STEEL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60. ASTM A706 REINFORCING STEEL MAY BE SUBSTITUTED FOR ASTM A615 REINFORCING STEEL.

ALL BARS SHALL BE EPOXY-COATED IN ACCORDANCE WITH SECTION 9-07.3.

SPLICES OF REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-19. ALL WELDING SHALL CONFORM TO AWS D1.4-2018 - REINFORCING STEEL AND SECTION 6-02.3(24)E. THE WELDED CONNECTION OF REINFORCEMENT TO STEEL MEMBERS. INCLUDING CHANNELS, PLATES, ETC. SHALL BE DEFINED AS A

ALL BARS SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE ENGINEER.

UNLESS OTHERWISE SPECIFIED THE MINIMUM CLEAR COVER FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING BAR SHALL BE AS FOLLOWS: DIAPHRAGM: 21/2 INCH

PILING NOTES

PILING SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE PILE SCHEDULE AND THE SPECIAL

UNDER NORMAL OPERATING CONDITIONS (TYPE 1 EVENTS), PILES IN THE BERTHING STRUCTURES HAVE BEEN DESIGNED FOR AN ALLOWABLE STRESS IN FLEXURE OF 0.90 X YIELD STRESS.

MARINE FENDER NOTES

TYPE 2 CURVED PIPE PILE FENDER DOLPHINS 1 AND 2, WINGWALLS

5 KIP-FT/FT² (+/-10%) RATED ENERGY (MINIMUM): 15 KIP/FT² (+/-10%) REACTION AT RATED ENERGY: DEFLECTION AT RATED ENERGY: 20%

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SR305 LEAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP WINGWALL AND DOLPHIN

GENERAL NOTES I

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CHAIN, WIRE ROPE AND HARDWARE NOTES

MATERIAL SPECIFICATIONS AND COATING REQUIREMENTS ARE SHOWN IN THE TABLE TITLED "SPECIFICATIONS FOR CHAIN, WIRE ROPE AND ASSOCIATED HARDWARE".

UNLESS OTHERWISE NOTED, ALL CHAIN, WIRE ROPE AND HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M232.

PRIOR TO ORDERING ANY MATERIALS FOR THE CHAIN ASSEMBLIES, THE CONTRACTOR SHALL VERIFY SIZES AND DIMENSIONS OF ALL CHAINS, SHACKLES, PADEYES, AND ALL OTHER COMPONENTS, SO THAT ALL COMPONENTS ARE COMPATIBLE AND SNUG AND TIGHT CONNECTIONS CAN BE MADE.

WIRE ROPE MINIMUM BREAKING FORCE (AS REDUCED BY 10% FOR GALVANIZING): 7/8" DIA.: 39.8T × 90% = 35.8T 1" DIA.: 51.7T × 90% = 46.5T 1'/2" DIA.: 114T × 90% = 103T

SPECIFICATIONS FOR	CHAIN, WIRE ROPE AND ASSOCIATE	D HARDWARE
PART	SPECIFICATION	GALVANIZED
STUD LINK CHAIN FOR WINGWALL AND DOLPHIN	ABS PART 2: RULES FOR MATERIALS AND WELDING (2018), CHAPTER 2, SECTION 2, "ANCHOR CHAIN", GRADE 30	YES
GRADE 100 ALLOY STEEL CHAIN FOR DOLPHIN	ASTM A973	NO
WIRE ROPE FOR TIE-UP LINE	ASTM A1023, RIGHT REGULAR LAY, IWRC, EXTRA IMPROVED PLOW STEEL, 6X26 CLASS 2	YES
BOLT TYPE CHAIN SHACKLE FOR WINGWALL	FS RR-C-271F, TYPE IVB, GRADE A, CLASS 3	YES
6∜2T BOLT TYPE ANCHOR SHACKLE FOR DOLPHIN	FS RR-C-271F, TYPE IVA, GRADE A, CLASS 3	YES
8∜2T BOLT TYPE ANCHOR SHACKLE FOR DOLPHIN	FS RR-C-271F, TYPE IVA, GRADE A, CLASS 3	YES
BOLT TYPE ANCHOR SHACKLE FOR TIE-UP LINE	FS RR-C-271F, TYPE IVA, GRADE A, CLASS 3	YES
BOLT TYPE CHAIN SHACKLE FOR LADDER	FS RR-C-271F, TYPE IVB, GRADE A, CLASS 3	YES
U-BOL T	ASTM F1554 GRADE 105	YES
TURNBUCKLE	ASTM F1145, TYPE 1, GRADE 1, CLASS G (JAW AND JAW)	YES
CONNECTING LINE	ASTM A 952, GRADE 80, CLASS CLM	YES
END LINK	FS RR-C-271F, TYPE XV	YES
MASTER LINE	WELDLESS ALLOY STEEL - QUENCHED AND TEMPERED	NO
SPELTER SOCKET	FS RR-S-550F, TYPE B	YES
SWAGING SLEEVE	MS518440	YES
1/2 INCH MOORING CATCH LINE	3-STRAND POLYESTER ROPE, MINIMUM BREAKING FORCE 5085 POUNDS	N/A

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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE			
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MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER			
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SR305 EAGLE HARBOR MAINTENANCE FACILITY	500.05
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SLIP F PILE SCHEDULE

STRUCTURE	PILE LOCATION	NORTHING	EASTING	OUTSIDE DIAMETER (INCH)	WALL THICKNESS	PIPE SOURCE	CUTTING SHOE	ULTIMATE BEARING CAPACITY (KIPS)	ULTIMATE UPLIFT CAPACITY (KIPS)	CUT-OFF ELEVATION (FT)	TIP ELEVATION (FT)	MIN. ORDER LENGTH (FT.)
	Α	231075.20	1225784.81	24	1	CONTRACTING AGENCY	YES	210	190	10.19	-65.0	79.0
BENT 1	В	231078.11	1225777.35	24	1	CONTRACTING AGENCY	YES	210	190	10.19	-65.0	79.0
	С	231081.01	1225769.90	24	1	CONTRACTING AGENCY	YES	210	190	10.19	-65.0	79.0
	Α	231010.91	1225759.76	24	1	CONTRACTOR	YES	210	190	11.44	-57.0	72.0
BENT 2	В	231013.81	1225752.31	24	1	CONTRACTOR	YES	210	190	11.44	-57.0	72.0
	С	231016.72	1225744.85	24	1	CONTRACTOR	YES	210	190	11.44	-57.0	72.0
	А	231004.06	1225756.01	24	1	CONTRACTOR	YES	232	130	10.71	-57.0	71.0
BENT 3	В	231006.60	1225749.49	24	1	CONTRACTOR	YES	232	130	10.71	-57.0	71.0
	С	231009.14	1225742.97	24	1	CONTRACTING AGENCY	YES	232	130	10.71	-57.0	71.0
DENT 4	Α	230966.45	1225745.66	36	1	CONTRACTING AGENCY	YES	260	50	43.0	-58.0	104.0
BENT 4 TOWERS	В	230974.44	1225725.16	36	1	CONTRACTING AGENCY	YES	260	50	43.0	-58.0	104.0
	Α	230954.68	1225748.42	30	1	CONTRACTOR	YES			18.0	-55.0	76.0
	В	230957.05	1225758.14	30	1	CONTRACTOR	YES			18.0	-55.0	76.0
<u> </u>	С	230945.39	1225760.98	30	1	CONTRACTOR	YES			18.0	-55.0	76.0
LT. WINGWALL	D	230943.02	1225751.27	30	1	CONTRACTOR	YES			18.0	-55.0	76.0
	FENDER PILE			36	1	CONTRACTING AGENCY	YES			27.0	-58.0	88.0
	FENDER PILE			36	1	CONTRACTING AGENCY	YES			27.0	-58.0	88.0
	Α	230967.64	1225715.16	30	1	CONTRACTOR	YES			18.0	-52.0	73.0
	В	230975.96	1225709.61	30	1	CONTRACTOR	YES			18.0	-52.0	73.0
	С	230969.30	1225699.63	30	1	CONTRACTOR	YES			18.0	-52.0	73.0
RT. WINGWALL	D	230960.98	1225705.18	30	1	CONTRACTOR	YES			18.0	-52.0	73.0
	FENDER PILE			36	1	CONTRACTING AGENCY	YES			27.0	-55.0	85.0
	FENDER PILE			36	1	CONTRACTING AGENCY	YES			27.0	-55.0	85.0
	А	230803.85	1225620.86	30	3/4	CONTRACTING AGENCY	YES			27.0	-70.0	100.0
	В	230806.46	1225616.59	30	3/4	CONTRACTING AGENCY	YES			27.0	-70.0	100.0
RT. INTERMEDIATE DOLPHIN	С	230799.03	1225612.05	30	3/4	CONTRACTING AGENCY	YES			27.0	-70.0	100.0
J J J J J J J J J J J J J J J J J J J	D	230796.42	1225616.32	30	3/4	CONTRACTING AGENCY	YES			27.0	-70.0	100.0
	FENDER PILE			36	1	CONTRACTING AGENCY	YES			27.0	-50.0	80.0
	А	230720.96	1225591.21	30	3/4	CONTRACTING AGENCY	YES			27.0	-65.0	95.0
[В	230723.56	1225586.94	30	3/4	CONTRACTOR	YES			27.0	-65.0	95.0
RT. OUTER DOLPHIN	С	230716.13	1225582.40	30	3/4	CONTRACTOR	YES			27.0	-65.0	95.0
DOLITIN	D	230713.53	1225586.67	30	3/4	CONTRACTOR	YES			27.0	-65.0	95.0
	FENDER PILE			36	1	CONTRACTING AGENCY	YES			27.0	-50.0	80.0
	Α	231060.92	1225822.00	EXISTING 18 SPIRAL WELDED	1/2	CONTRACTING AGENCY	YES			32.0	-45.0	77.0
FLOAT PILES	В	231017.27	1225827.63	EXISTING 18 SPIRAL WELDED	1/2	CONTRACTING AGENCY	YES			20.0	-45.0	65.0
	С	230973.64	1225833.27	EXISTING 18 SPIRAL WELDED	1/2	CONTRACTING AGENCY	YES			20.0	-45.0	65.0

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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP

PILE SCHEDULE

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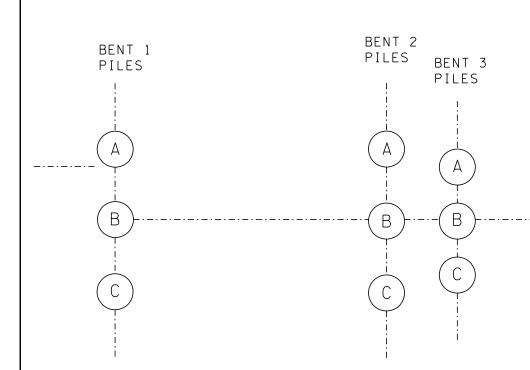
NOTES:

1. ALL CONTRACTOR-FURNISHED PILING SHALL HAVE THE FOLLOWING MIN. YIELD STRENGTHS:

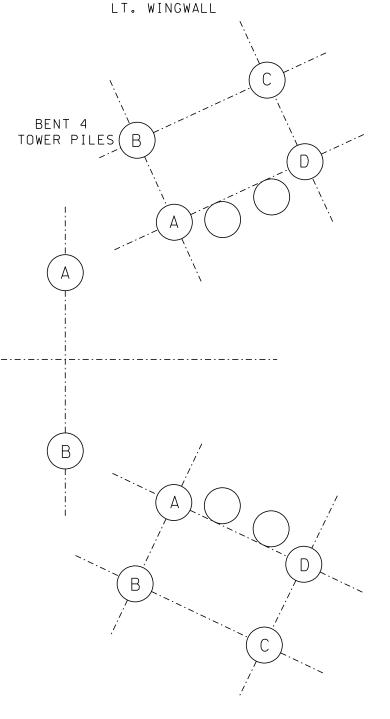
24×1 50 KSI 30×¾ 60 KSI 30×1 50 KSI

SEE SPECIAL PROVISIONS FOR CONTRACTING AGENCY-FURNISHED PILING AND FOR ADDITIONAL REQUIREMENTS.

- 2. ALL PILES SHALL BE FURNISHED WITH STEEL PILE CUTTING SHOES, UNO.
- 3. ALL PILES SHALL BE COATED PER THE SPECIAL PROVISIONS.
- 4. THE "MIN. ORDER LENGTH" IS THE DISTANCE FROM THE "CUT-OFF ELEVATION" TO THE "MIN. TIP ELEVATION" OR ANTICIPATED DISTANCE TO ACHIEVE ULTIMATE BEARING CAPACITY PLUS AN ADDITIONAL 3 FEET MIN.
- 5. ALL PILES SHALL BE DRIVEN TO AT LEAST THE "MIN. TIP ELEVATION"AND SHALL ALSO BE DRIVEN UNTIL THEY REACH THE "ULTIMATE BEARING CAPACITY" AND "ULTIMATE UPLIFT CAPACITY" AS REQUIRED.



PILE LAYOUT



RT.WINGWALL

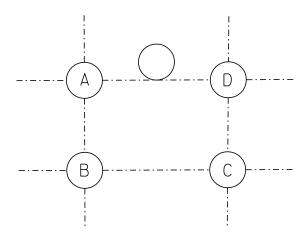




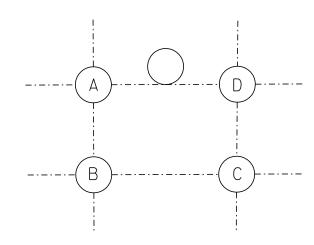


RELOCATED FLOAT

INTERMEDIATE DOLPHIN



OUTER DOLPHIN



	SF/Eagle Harbor/17w06	2SlipFtoDrive	eOn/PE/PE_PD/CAD/_Contract_Plan	is/100% <i>1</i> 7w06	2s03	_01.dlv	
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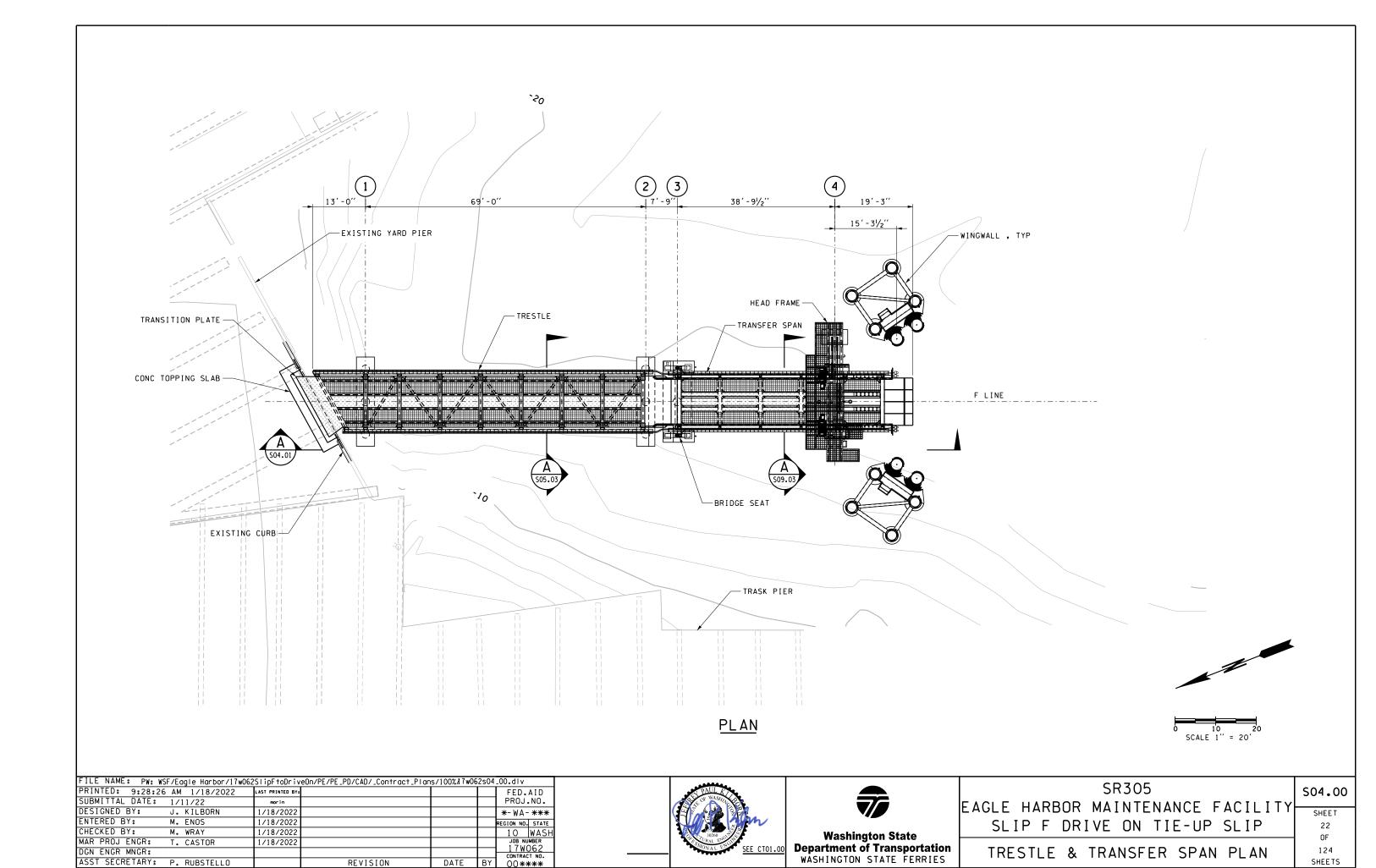
Department of Transportation

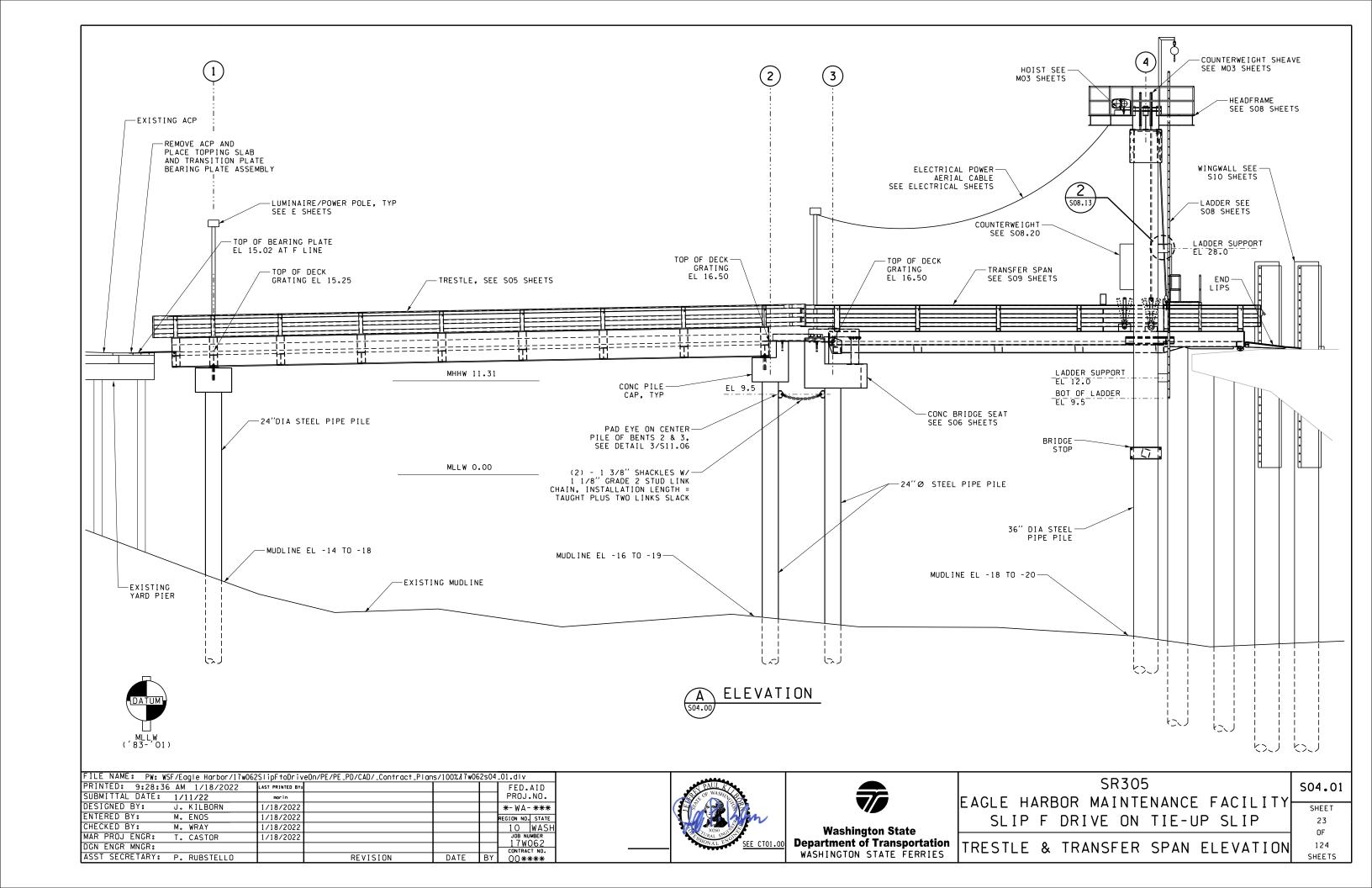
WASHINGTON STATE FERRIES

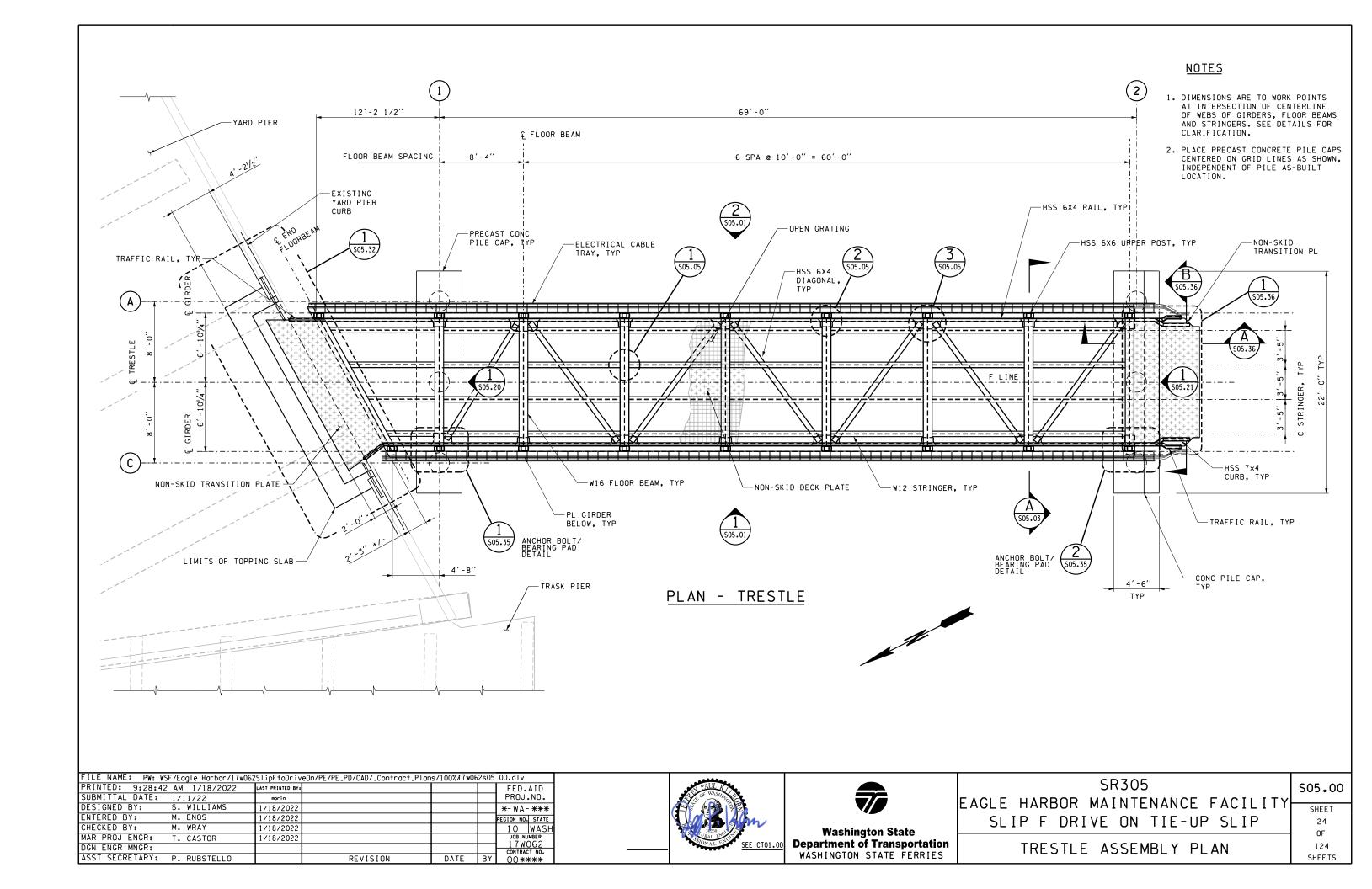
SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
PILE LAYOUT

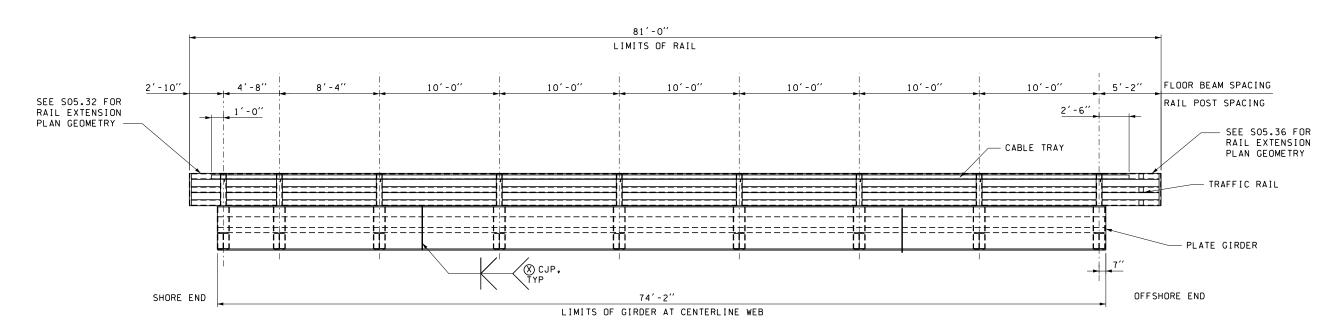
SHEET	
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503.01

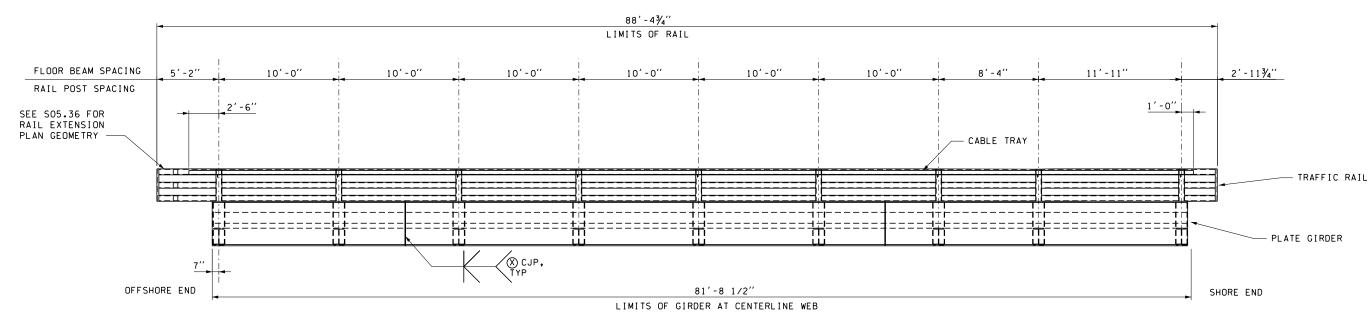








ELEVATION - RIGHT GIRDER (LOOKING EAST)



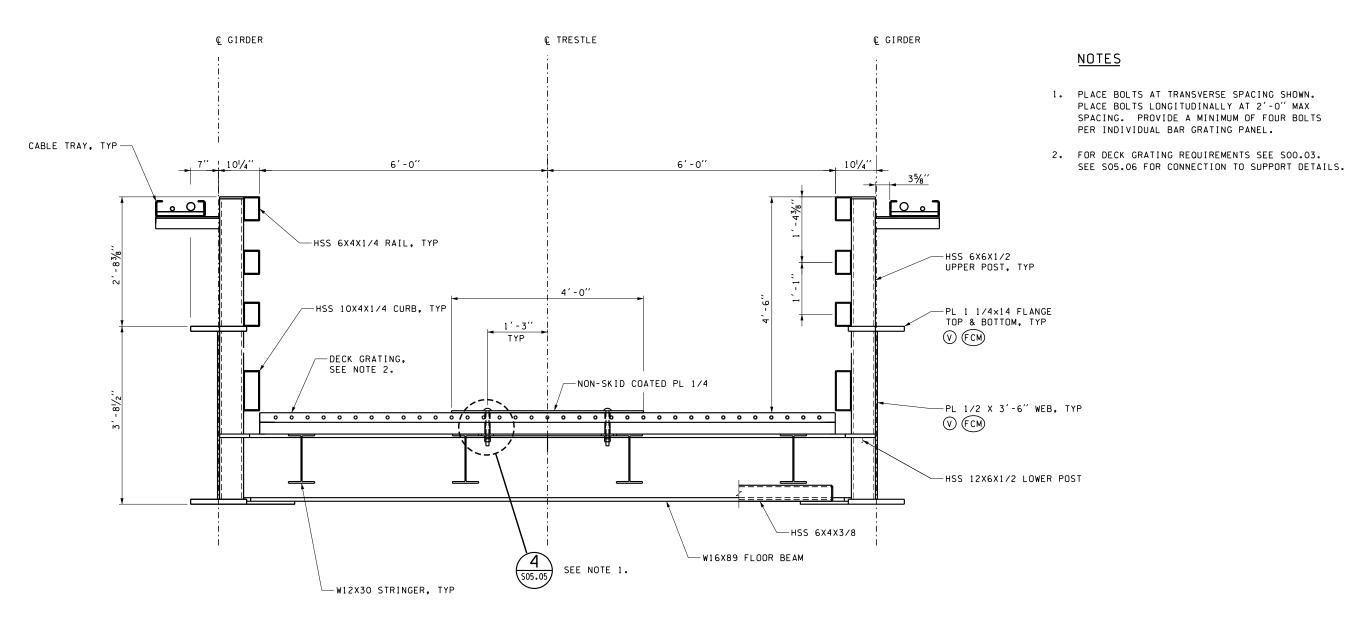
ELEVATION - LEFT GIRDER (LOOKING WEST)

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ENTERED BY:	M. ENOS	1/18/2022				REGION NO. STATE		
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MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER		
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EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	25 OF
TRESTLE EXTERIOR ELEVATIONS	124
TRESTLE EXTERIOR ELEVATIONS	SHEETS



,	A	SECTION	-	TRESTLE
	505.00			

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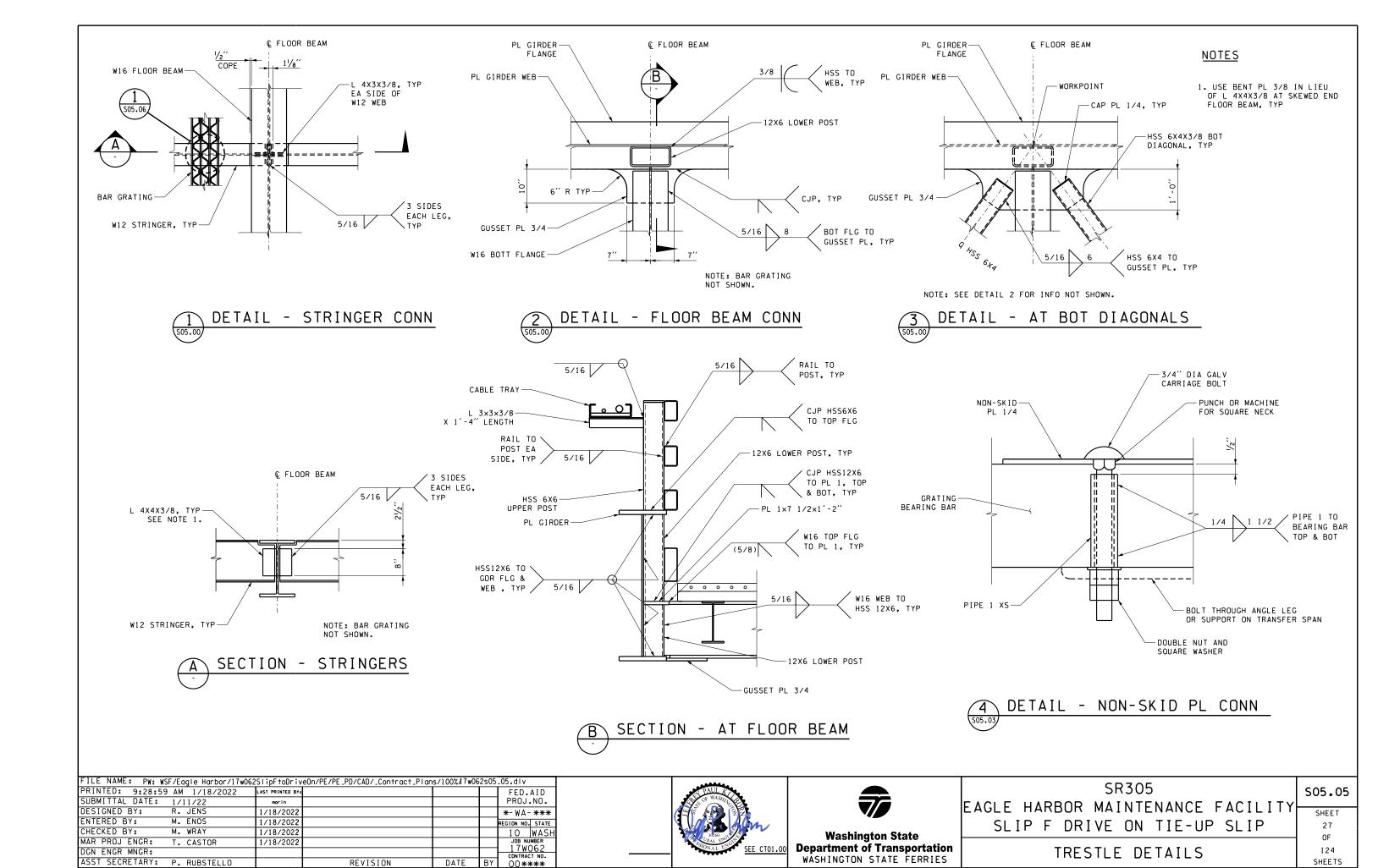


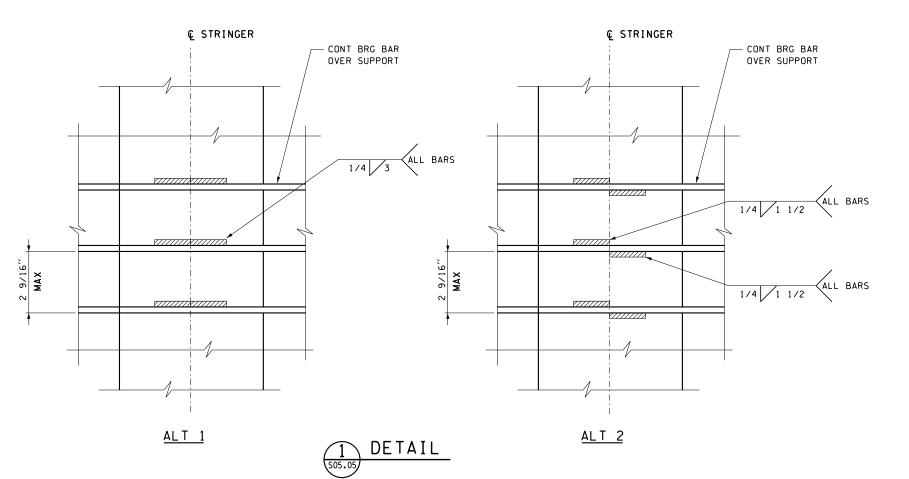


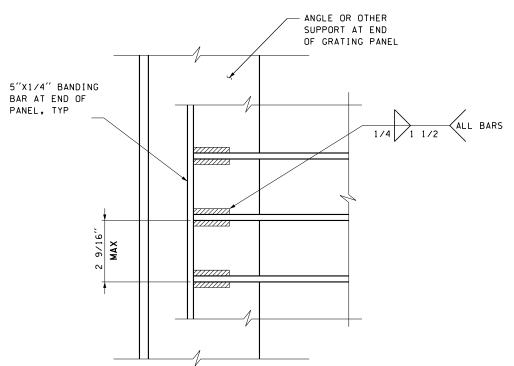
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EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
TRESTLE SECTIONS I

\$05.03 SHEET 26

0F 124







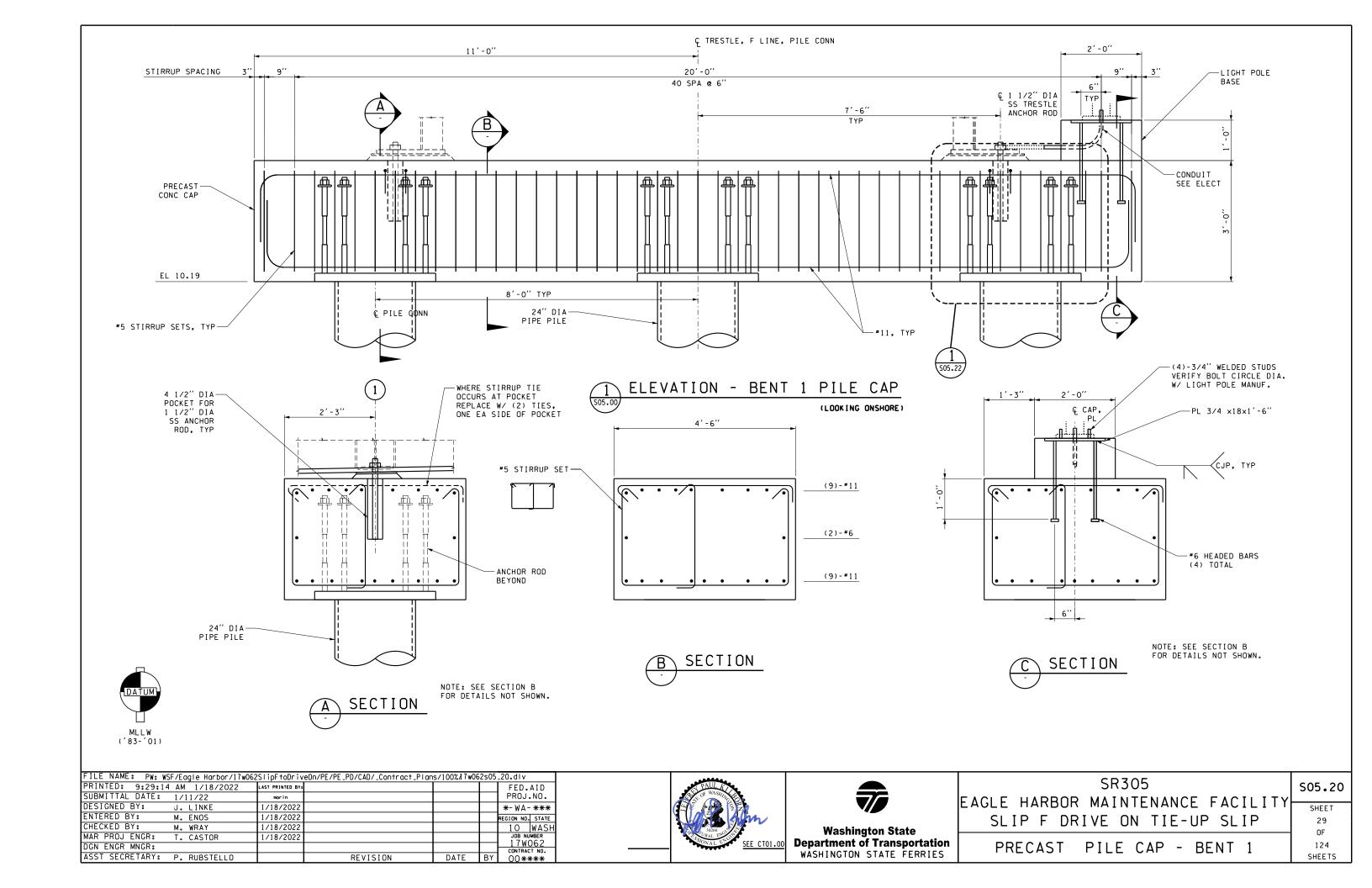


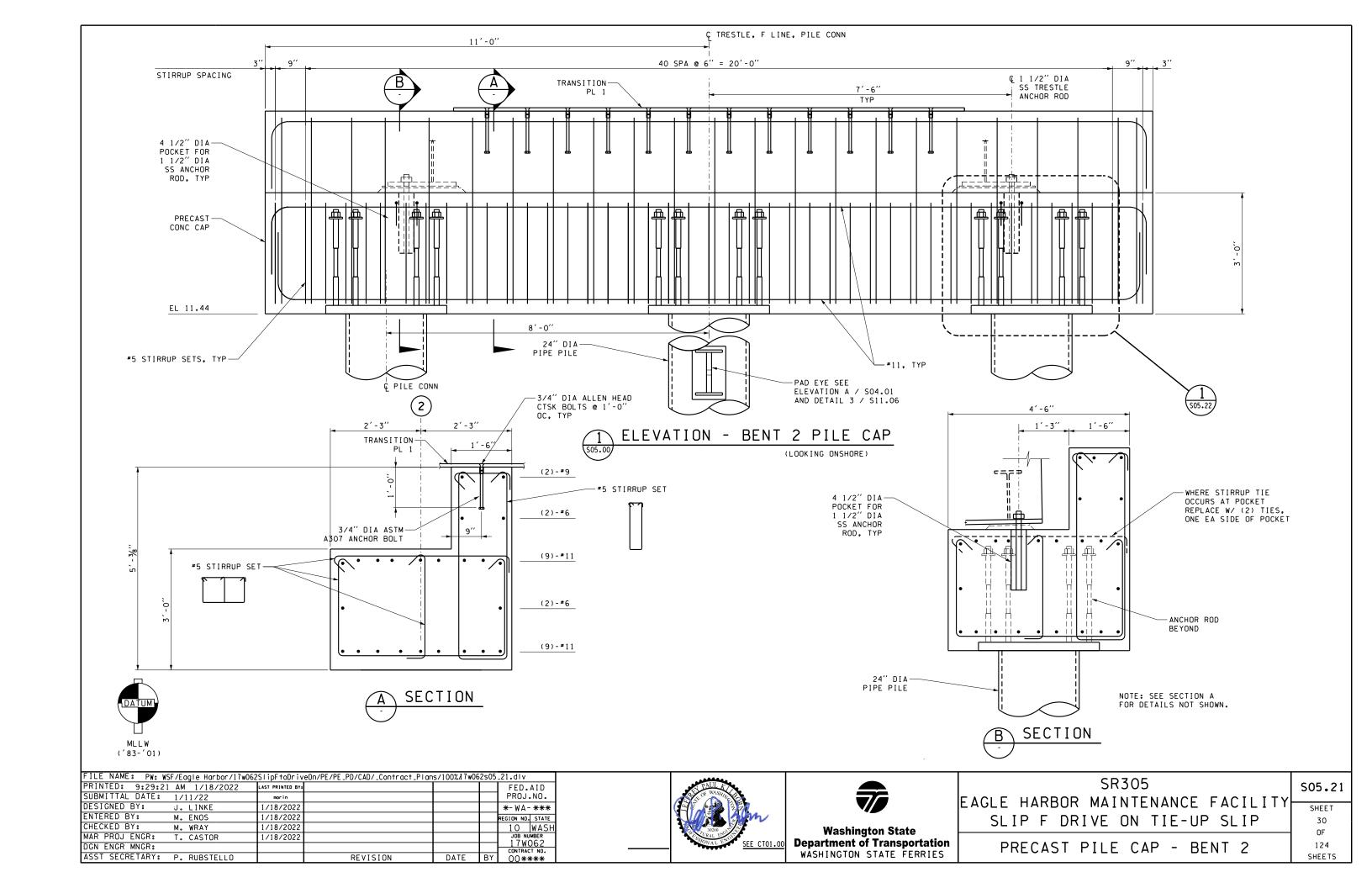
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CHECKED BY:	M. WRAY	1/18/2022				10 WASH
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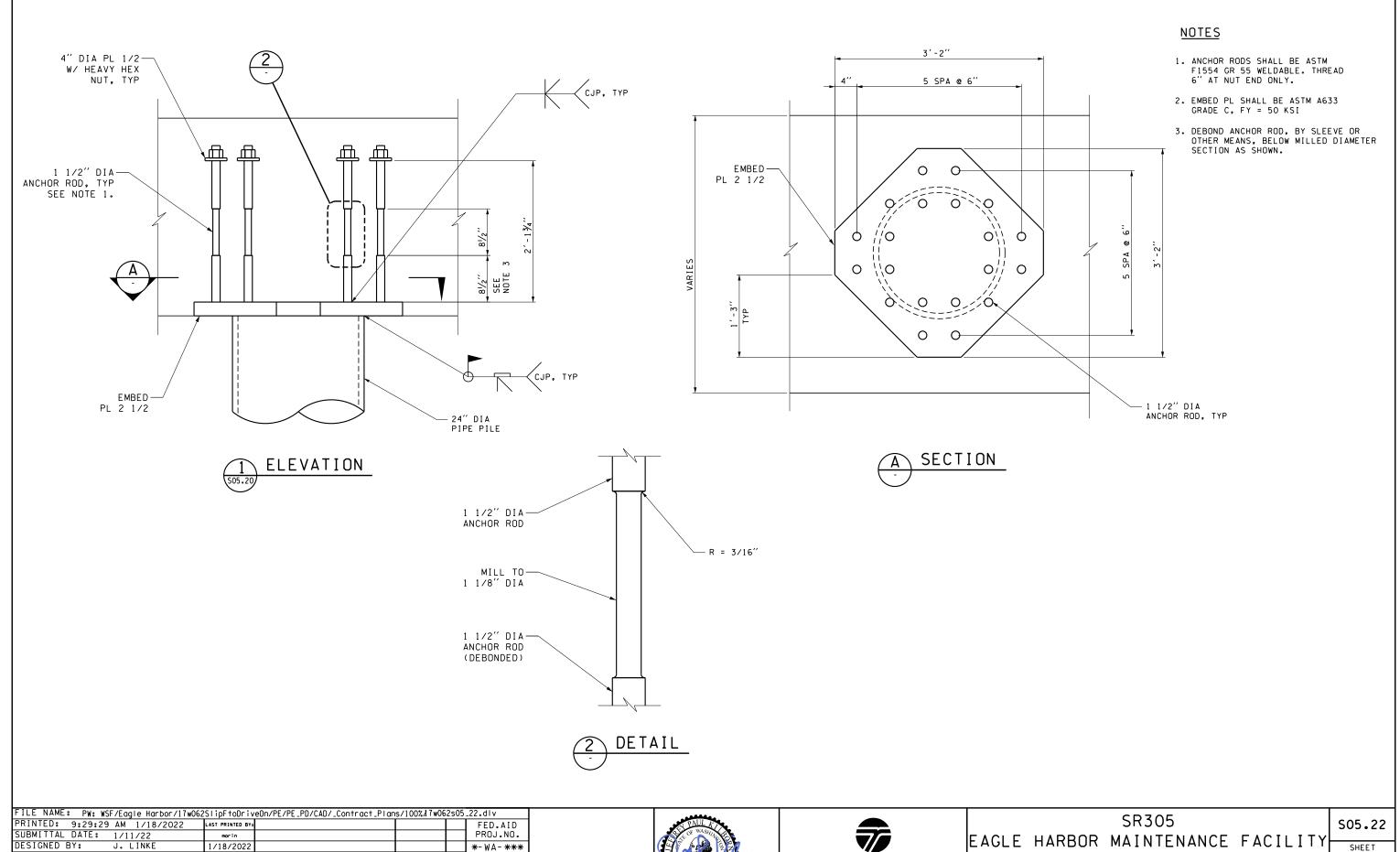




SR305 EAGLE HARBOR MAINTENANCE FACILITY	505.06
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SLIP F DRIVE ON TIE-UP SLIP	28
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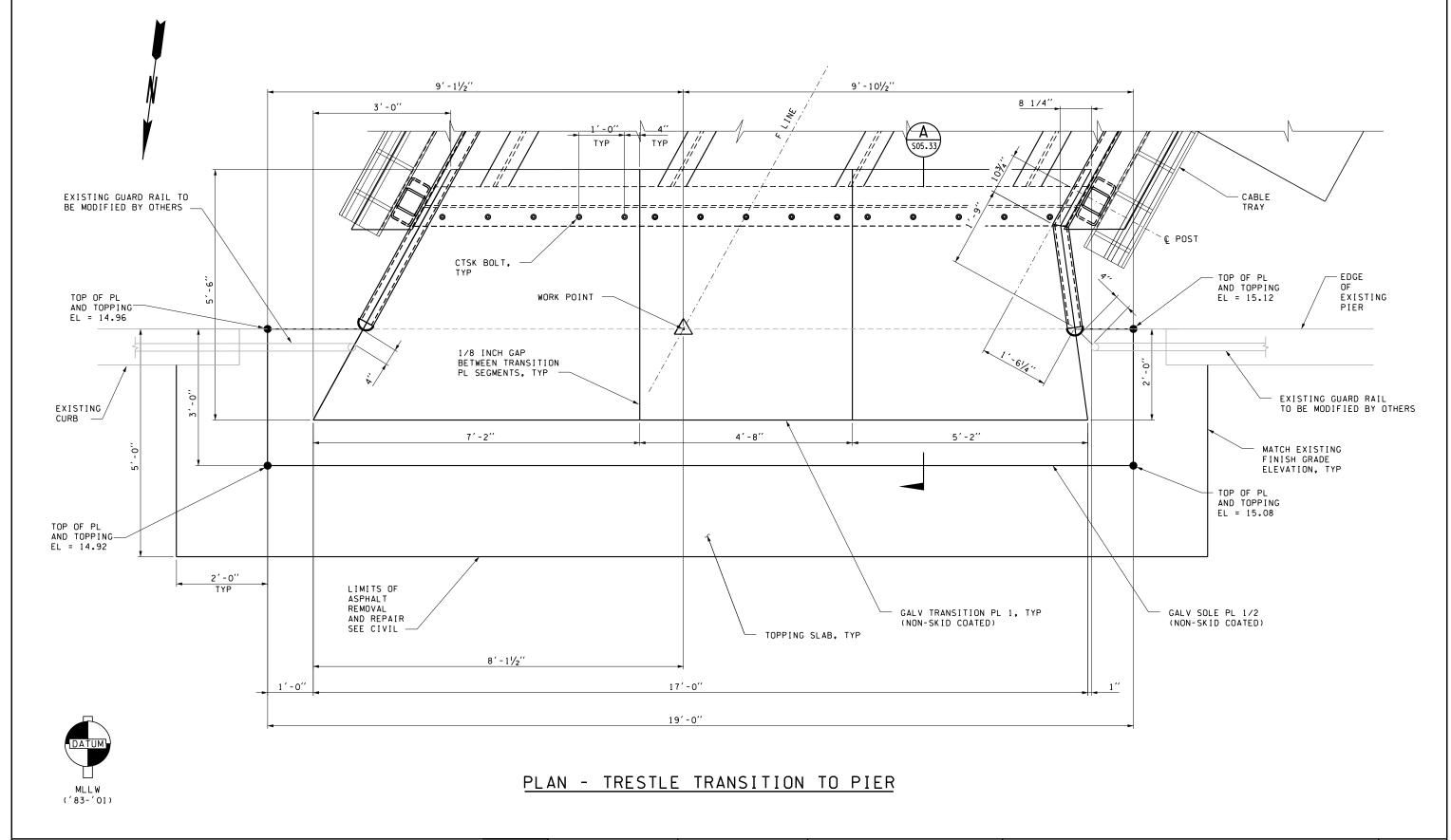




SR305	
EAGLE HARBOR MAINTENANCE FACILITY-	_
SLIP F DRIVE ON TIE-UP SLIP	
PRECAST PILE CAP DETAILS I	

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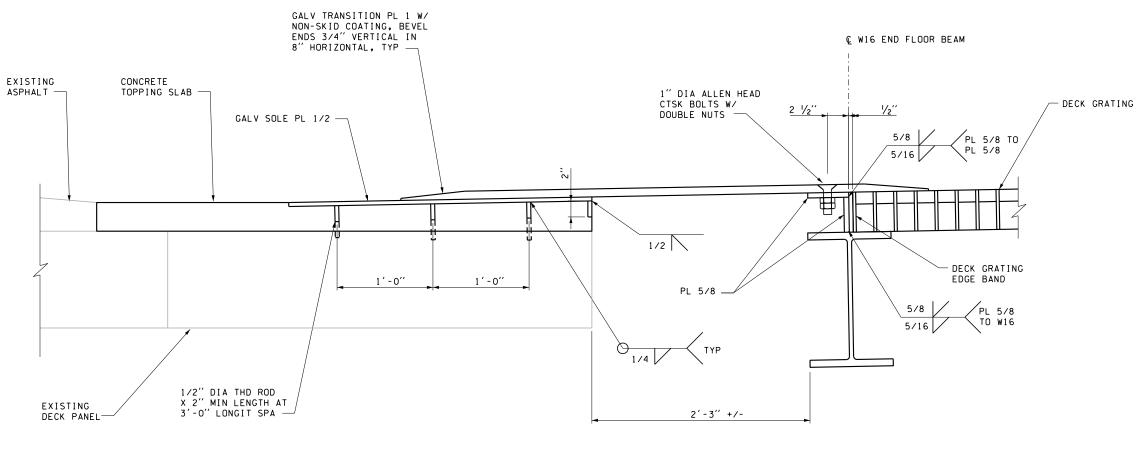
SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
TRESTLE TRANSITION DETAILS I

SHEET 32

0F 124

<u>NOTES</u>

- 1. THREADED ROD MAY BE EXTENDED AND EPOXY-GROUTED
 1" INTO EXISTING DECK PANEL TO ACCOMMODATE
 PLACEMENT OF THE SOLE PLATE AND NON-SHRINK
 GROUT.
- 2. TRANSITION PLATE AND SOLE PLATE SHALL BE TEMPORARILY ATTACHED IN UNIFORM BEARING DURING PLACEMENT OF GROUT BENEARTH THE SOLE PLATE.



A	SECTION
505.32	

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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	ВҮ	00****

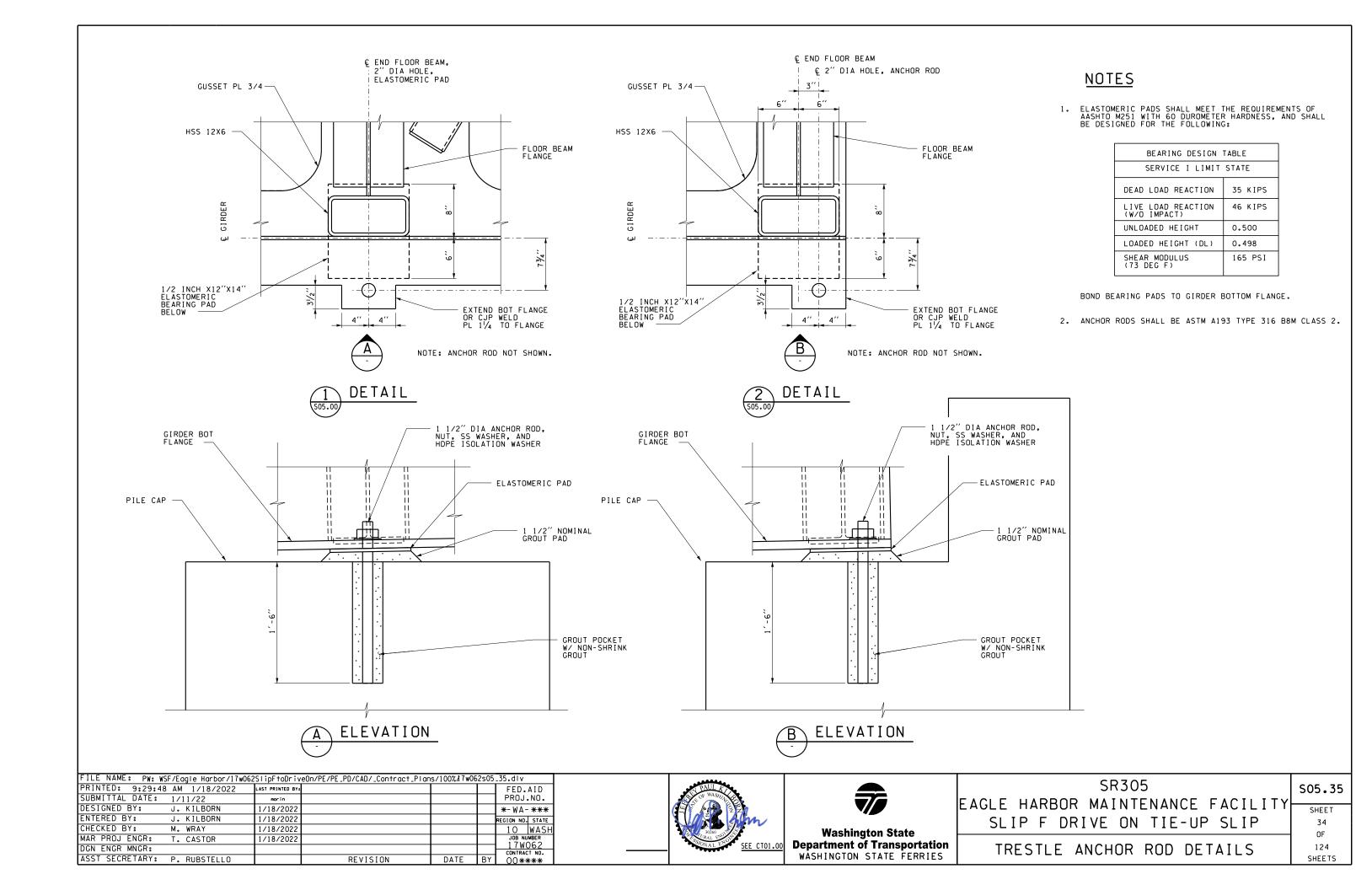


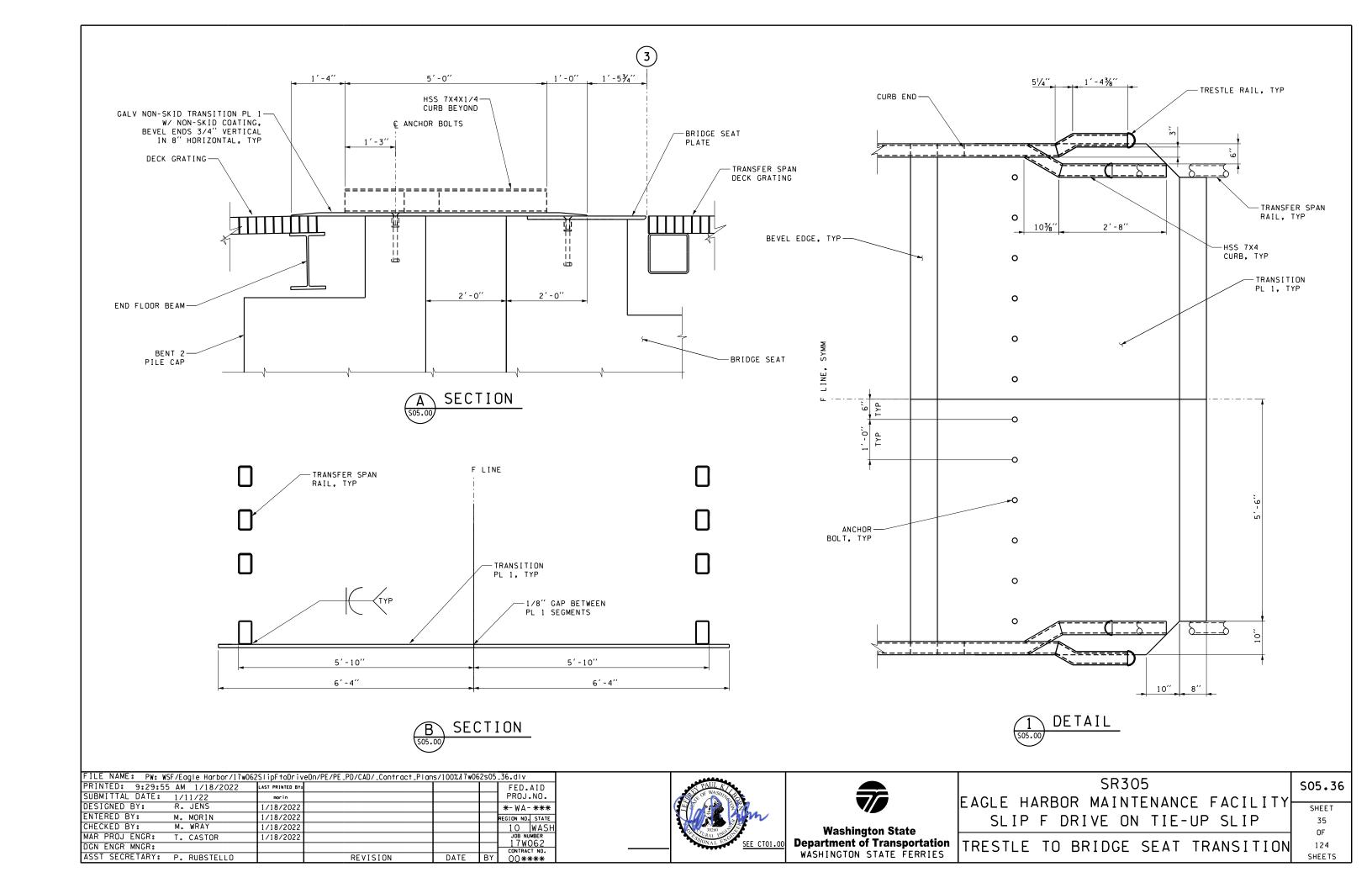


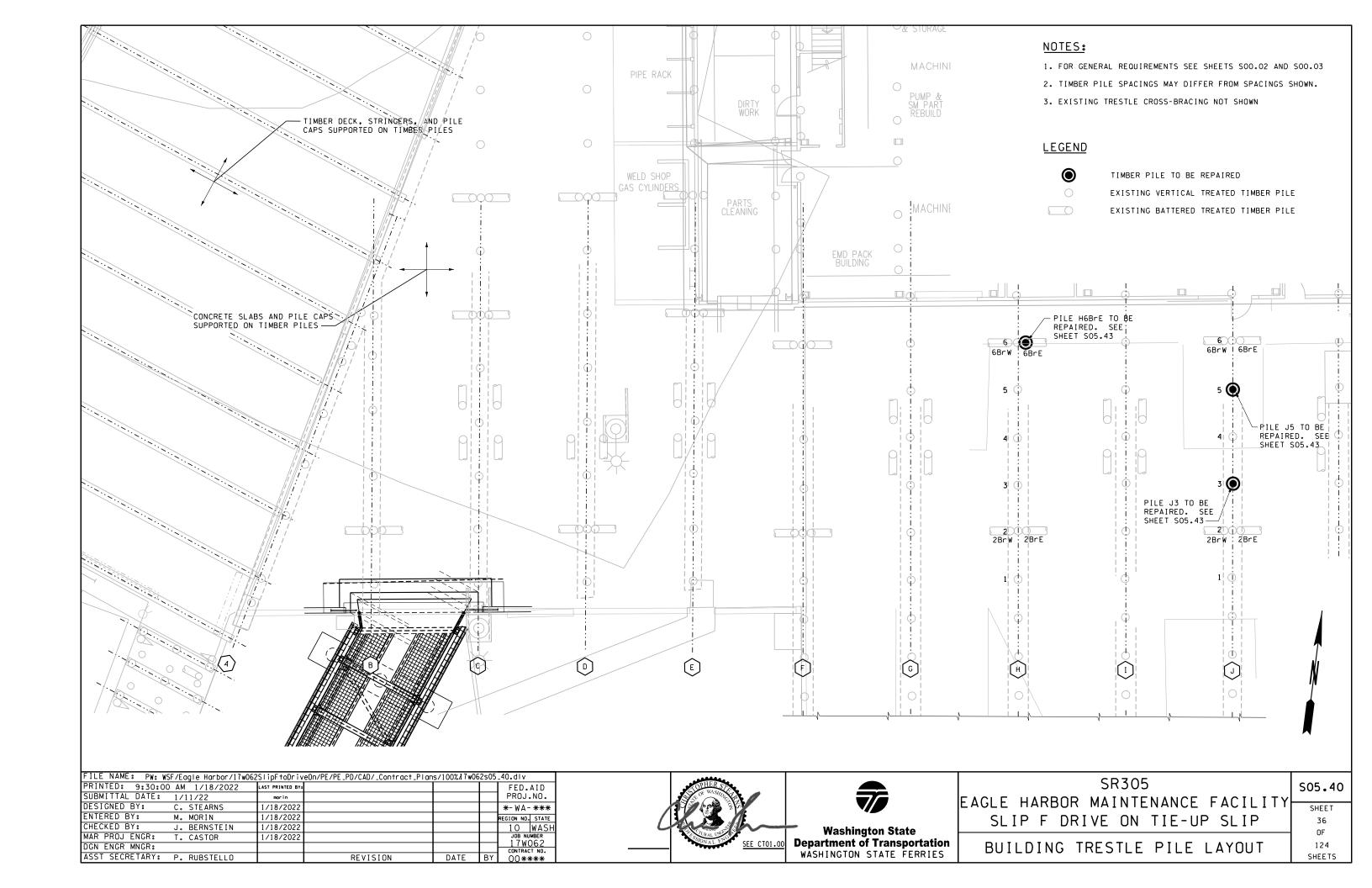
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EAGLE HARE	BOR MAINTENANCE FACILITY
SLIP F	DRIVE ON TIE-UP SLIP
TRESTLE	TRANSITION DETAILS II

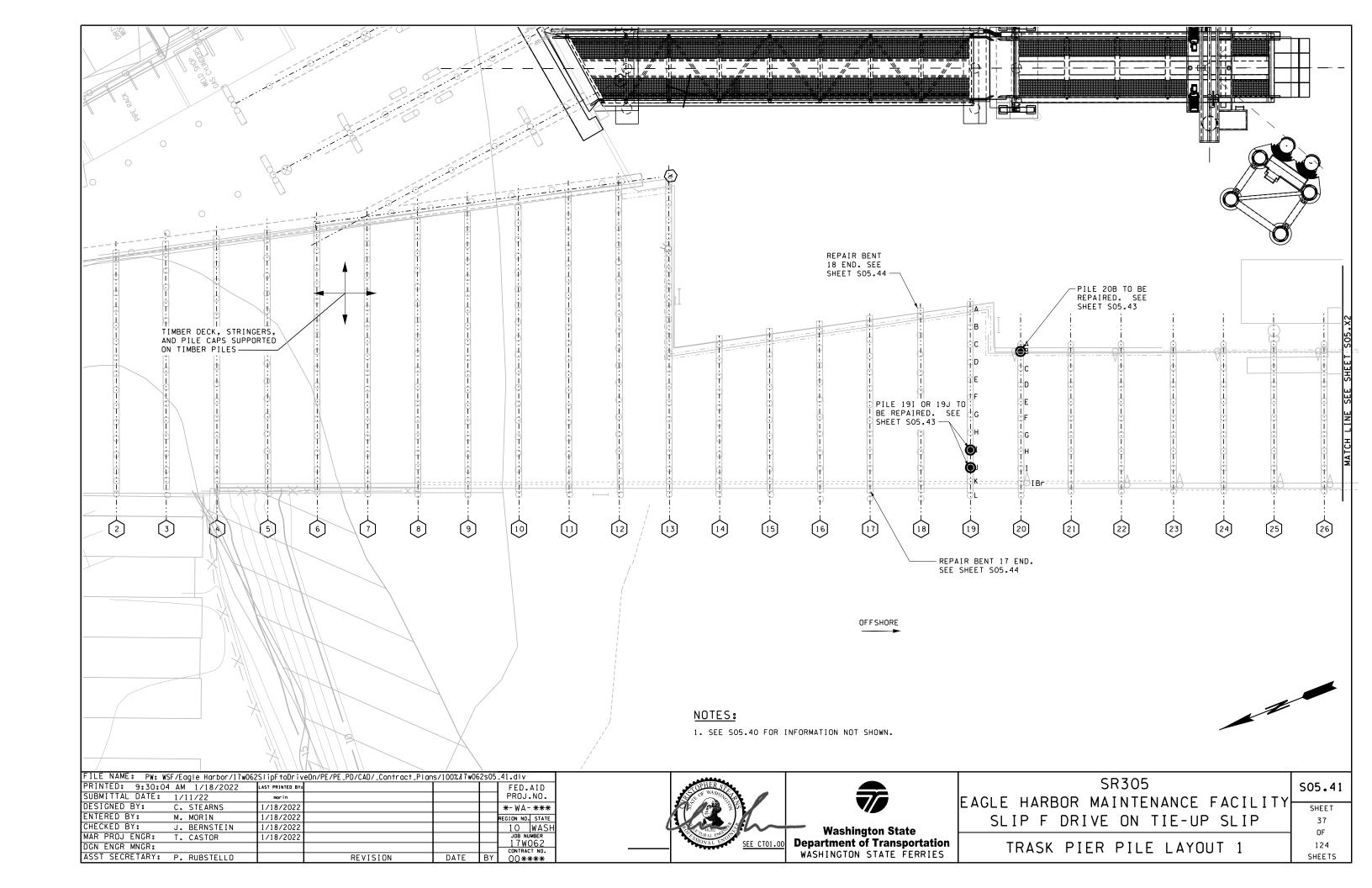
SO5.33 SHEET

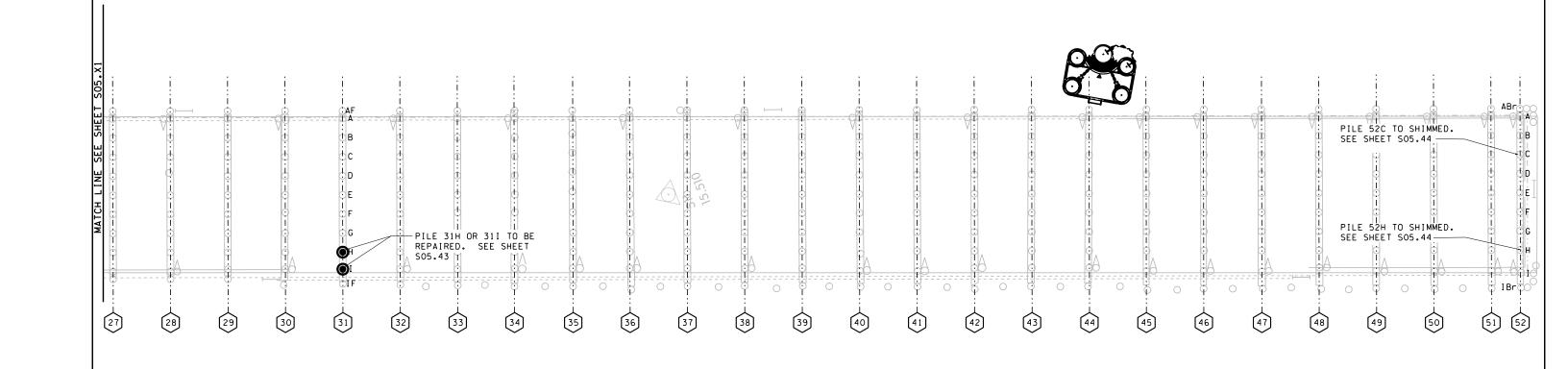
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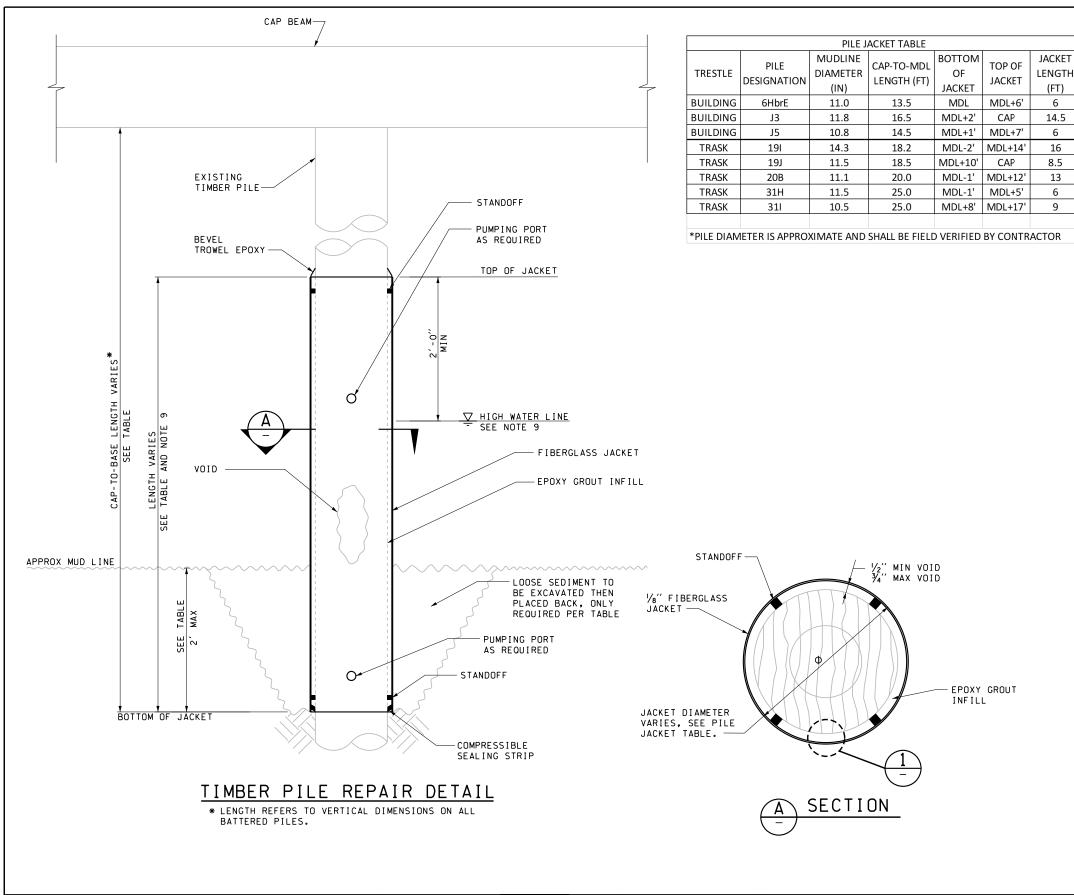


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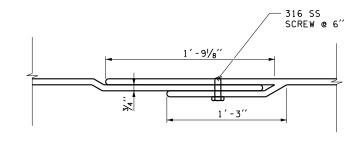
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SR305 EAGLE HARBOR MAINTENANCE FACILITY			
EAGLE HARDUR MAINTENANCE FACILITY	SHEET		
SLIP F DRIVE ON TIE-UP SLIP	38		
	OF		
TRASK PIER PILE LAYOUT 2	124		
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NOTES:

- FOR GENERAL REQUIREMENTS AND FIELD TREATMENT OF CUT SURFACES, SPIKE AND BOLT HOLES, AND CONTACT SURFACES, SEE SOO.01 AND SOO.02
- FOR ADDITIONAL REQUIREMENTS, SEE SPECIAL PROVISION "TIMBER PILE REPAIR".
- FOR LOCATIONS OF TIMBER PILES TO BE REPAIRED, SEE TRESTLE PILE LAYOUT SHEETS.
- 4. WHERE GROUND LINE SLOPES, EXCAVATION SHALL BE MEASURED FROM THE LOWEST ADJACENT GROUND LINE.
- THE CONTRACTOR SHALL CLEAN AND TREAT THE SURFACE OF THE EXISTING TIMBER PILE PRIOR TO THE INSTALLATION OF THE FIBERGLASS JACKET AND EPOXY GROUT PER SPECIAL PROVISIONS.
- 6. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT DEBRIS AND MATERIAL FROM ENTERING THE WATER WHILE CLEANING AND REPAIR PLACEMENT.
- 7. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED PILE JACKET SYSTEM. STANDOFF SPACERS SHALL BE PROVIDED TO ENSURE THE JACKET FORM IS CENTERED ON THE EXISTING PILES.
- ALL STEEL THREADED RODS, FASTENERS AND CONNECTIONS SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232.
- SPECIFIED PILE JACKET DETAILS BASED ON ROT LOCATIONS. GREATER HEIGHTS MAY BE ALLOWED BASED ON HIGH WATER LEVEL.
- 10. TRANSVERSE CROSS-BRACING NEED NOT BE REINSTALLED AFTER JACKET INSTALLATION.
- 11. ADDITIONAL EXCAVATION MAY BE REQUIRED TO ACCOUNT FOR SEALING STRIP INSTALLATION.
- 12. SEE SO5.45 FOR PILE INSPECTION DATA SHEETS.





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MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER	
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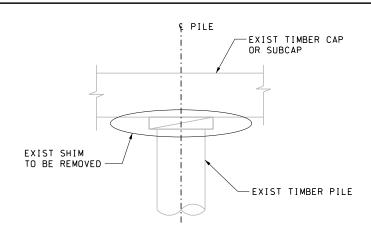




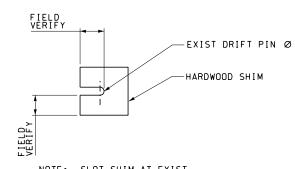
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SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
TIMBER PILE REPAIR DETAILS

SHEET 39 0F 124

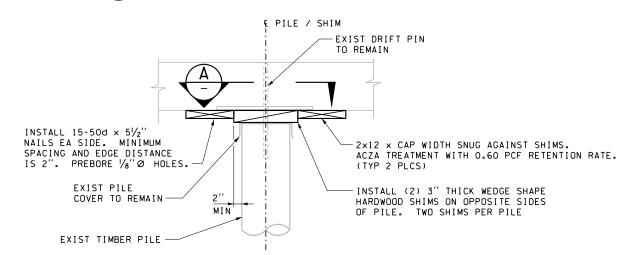


EXIST CONDITION EXIST TIMBER PILE SHIM



NOTE: SLOT SHIM AT EXIST DRIFT PIN LOCATIONS.





NOTE: FIELD CUT REPLACEMENT TIMBER PILES FOR TIGHT FIT.
CHANNEL STRAPS AND ASSOCIATED FASTENERS
NOT SHOWN FOR CLARITY. EXIST PILE COVER AND
DRIFT PIN NOT SHOWN FOR CLARITY.

TRASK PIER PILE 52C AND 52H TIMBER PILE SHIM

FILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%17w062s05_44.dlv PRINTED: 9:30:19 AM 1/18/2022 LAST PRINTED BY FED.AID SUBMITTAL DATE: 1/11/22 PROJ.NO. morin DESIGNED BY: 1/18/202 C. STEARNS *-WA-*** ENTERED BY: 1/18/202 M. MORIN GION NO. STATE CHECKED BY: 10 WASH JOB NUMBER 17W062 J. BERNSTEIN 1/18/2022 MAR PROJ ENGR: T. CASTOR 1/18/2022 DGN ENGR MNGR: ASST SECRETARY: P. RUBSTELLO REVISION DATE 00****

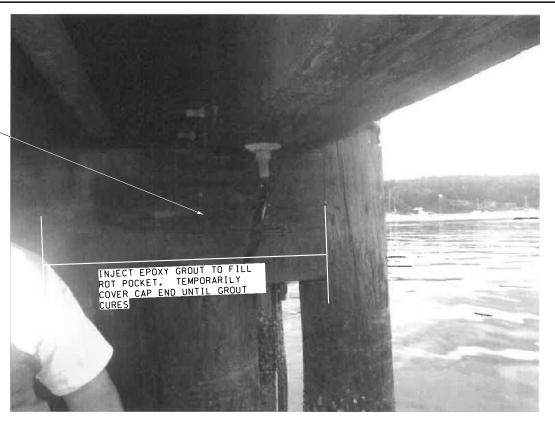




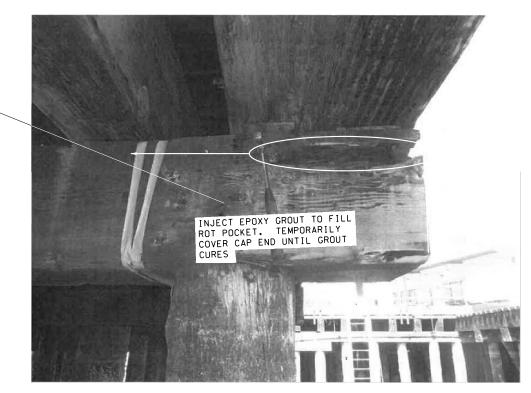
BENT 17 PILE CAP HAS ROT 3'-0" FROM END. 1" SHELL REMAINING OVER LENGTH

NOTES:

- 1. FOR GENERAL REQUIREMENTS, SEE SOO DRAWING SERIES.
- 2. HARDWOOD SHALL HAVE A JANKA HARDNESS RATING GREATER THAN 1320.
- FOR FURTHER PILE SHIMMING AND CAP REPAIR REQUIREMENTS, SEE SPECIAL PROVISIONS.



BENT 17 PILE CAP END REPAIR
LOOKING OFFSHORE



BENT 18 PILE CAP END REPAIR
LOOKING ONSHORE

SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP

SO5.44 SHEET 40 OF 124

SHEETS

TIMBER REPAIR DETAILS

BENT 18 PILE CAP HAS ROT 8'-O" FROM END. 4" DEEP ROT OVER LENGTH ON OFFSHORE FACE

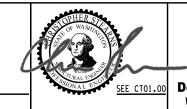
BUILDING TRESTLE INFORMATIONAL ONLY

	Underwater	11/5/2019	Lead:	RMP/MBS	Co:		DON/JRWH/MBS/LAW	
	Routine	5/12/2020	Lead:	RMP	Co:		DON	
							Emphasis on Timber Caps during 2020 inspection	
Pile	Location				Cor	dition/Dam	age	Inspection Type
					Defect Location	Pile		
Bent	Pile	% Area	RT or	YT/RT Pile		Length	Details/Remarks	Routine/UW
bent	Pile	Remaining	ΥT	Circumference (in)		(Cap to	Details/Remarks	Routine/Ow
		_				MDL)		
	•	Pile Defects a	re locat	ed vertically from either	er the cap down or the mudl	ine up and	by the clock position around the pile with 12:00 being offshore.	•
Н	6BrE	75	YT		MDL+3 @ 5:00		MBC; 6"(D) x 6"(W) x 12"(H) cavity. (Photo UW-5, CS3)	UW
					MDL to +5 @ 12:00		Check in pile full height with 4" penetration	
							Marine Borer activity in check with loss of section.	
J	3	50	YT		Cap -2		Drilled in 2019 2" shell @ 6:00	UW
					MDL + 4 @ 8:00		Two 1-1/2" old bolt holes. MBE. 8"deep x 9" tall diameter rot pocket.	
J	5	50	YT		_		(Photo UW-4, CS3)	UW

TRASK PIER INFORMATIONAL ONLY

Routi	ne:	5/12/2020	Lead:	DON	Co:	RMP			
Underw	/ater:	11/4/2019	Lead:	DON	Co:	JRWH			
Bent Row	Pile	% Area Remaining	Pile Type	YT/RT	YT/RT Pile Circum. (in)	Defect Location	Pile Length	Details/Remarks	Routine or Underwater
19	ı	50	Timber	YT	45" at MDL 49" at MDL+11	MDL to MDL+6 @ 4:00 MDL to MDL+2 MDL+12 @ 4:00	18.2	4" wide x 2" deep ring splits and missing layers. (Photo #204) 8" wide x 2" deep ring splits (3:00 - 5:00 @ MDL) 1-1/2" dia. hole with MBC 8" deep (7" pen @ 45d L/R) See photo UW-	UW Routine
19	J	50	Timber	YT	36" at MDL	Cap to MDL+12	18.5	Shake/ring split 2:00 - 4:00 up to 1-1/2" deep MBC	
						MDL+14 to Cap-4	Cap	5"w x 2"deep @ 3:00 Multiple checks at top. Rot with 2" Shell to 4" cavity determined by drilling at 8:00. (Photo #212)	Routine
20	В	50	Timber	YT	35 @ MDL 37 @ MDL+8	MDL + 1 to MDL+3 MDL +8 @ 12:00 MDL+9 @ 12:00	20	1-1/2" deep striations @ 12:00 3" diameter hole with a 12" tall by 10" wide by 7" deep MBC behind it. See photos UW-47 and #190 of the top connection. MBC 2"w x 3"v opening w/ 9" pen (7" pen 45d L/R)	UW
31	Н	50	Timber	YT	36"	FH FH @ 10:00 - 1:00 MDL+1 @ 9:00 MDL +2 @ 9:00	25.0	Limnoria striations Ring split 1" shake missing MBC 2"w x 3"v opening w/ 2-1/2" pen. Incl. 4" up into cavity MBC 1"w x 2"v w/ 7-1/2" pen. (3-1/2" pen 45d L / 4" 45d R) Photo UW- 62. and #188 of the top connection	UW
31	I	50	Timber	YT	33" @ MDL 36" @ MDL+11	FH MDL+11 @ 10:00 MDL+13 @ 10:00 MDL+14 @ 6:00	25.0	Limnoria striations. MBC 1"w x 2-1/2"v opening w/ 8" pen. See photo UW-51 MBC 1-1/3"w x 3"v opening w/ 7" pen. See photo UW-52 MBC 1"w x 2"v w/ 7-1/2" pen. (3-1/2" pen 45d L / 6" 45d R) See photo #188 of the top connection	UW
52	С	75	Timber			MDL to MDL+7 Top		Limnoria striations up to 3" deep. Non-bearing. (Shown as 0% layout) Actual 75% remaining. REPAIR #10055	UW ROUTINE
52	Н	75	Timber		41	MDL to ITZ Top		Limnoria striations. Non-bearing. (Shown as 0% layout) Actual 75% remaining. See photo #169. REPAIR #10055	UW

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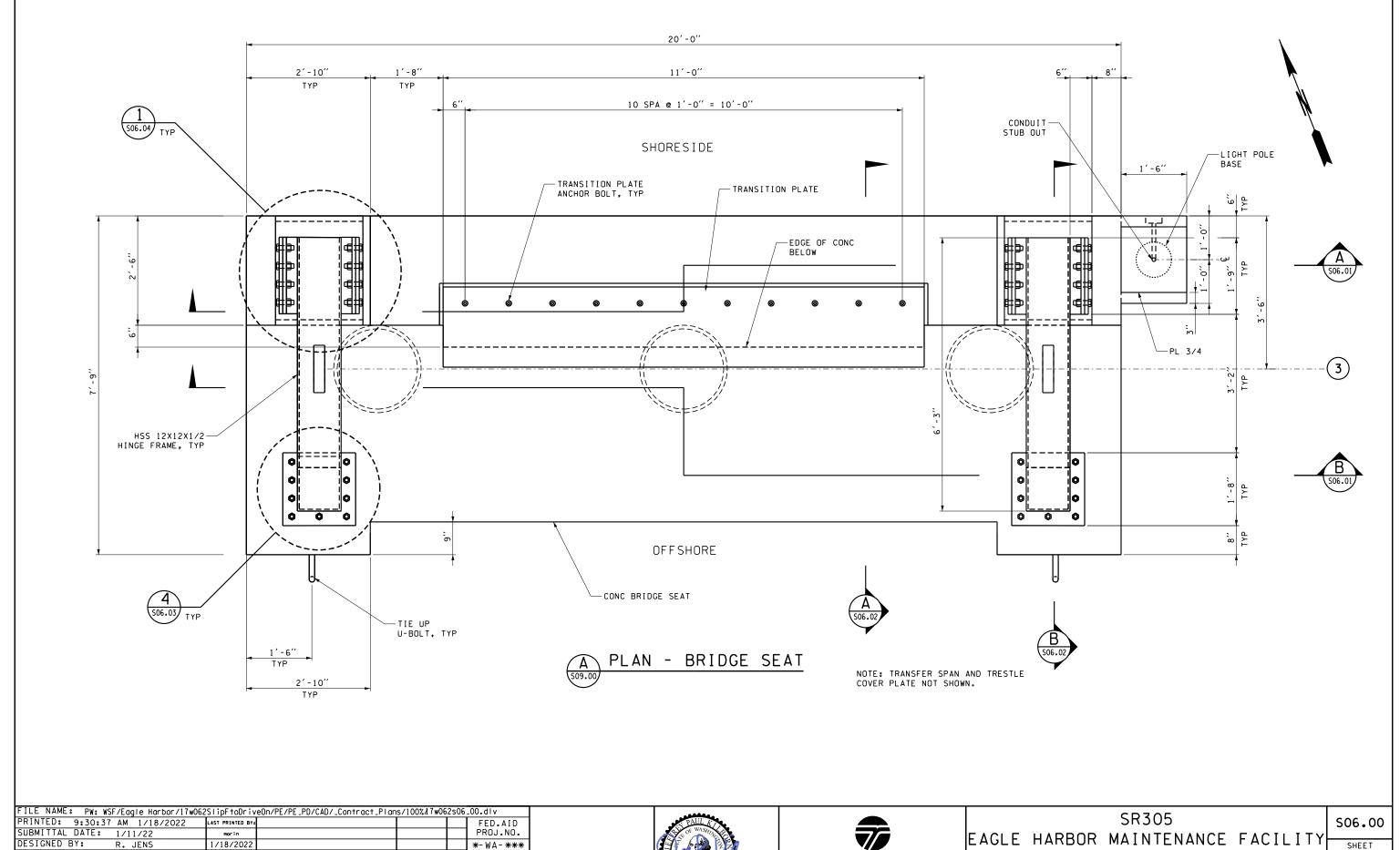
WASHINGTON STATE FERRIES

SR305 S05.45 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP TRESTLE PILE INSPECTION DATA

SHEET

41

OF





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DGN ENGR MNGR:

M. ENOS

J. KILBORN

T. CASTOR

ASST SECRETARY: P. RUBSTELLO

1/18/2022

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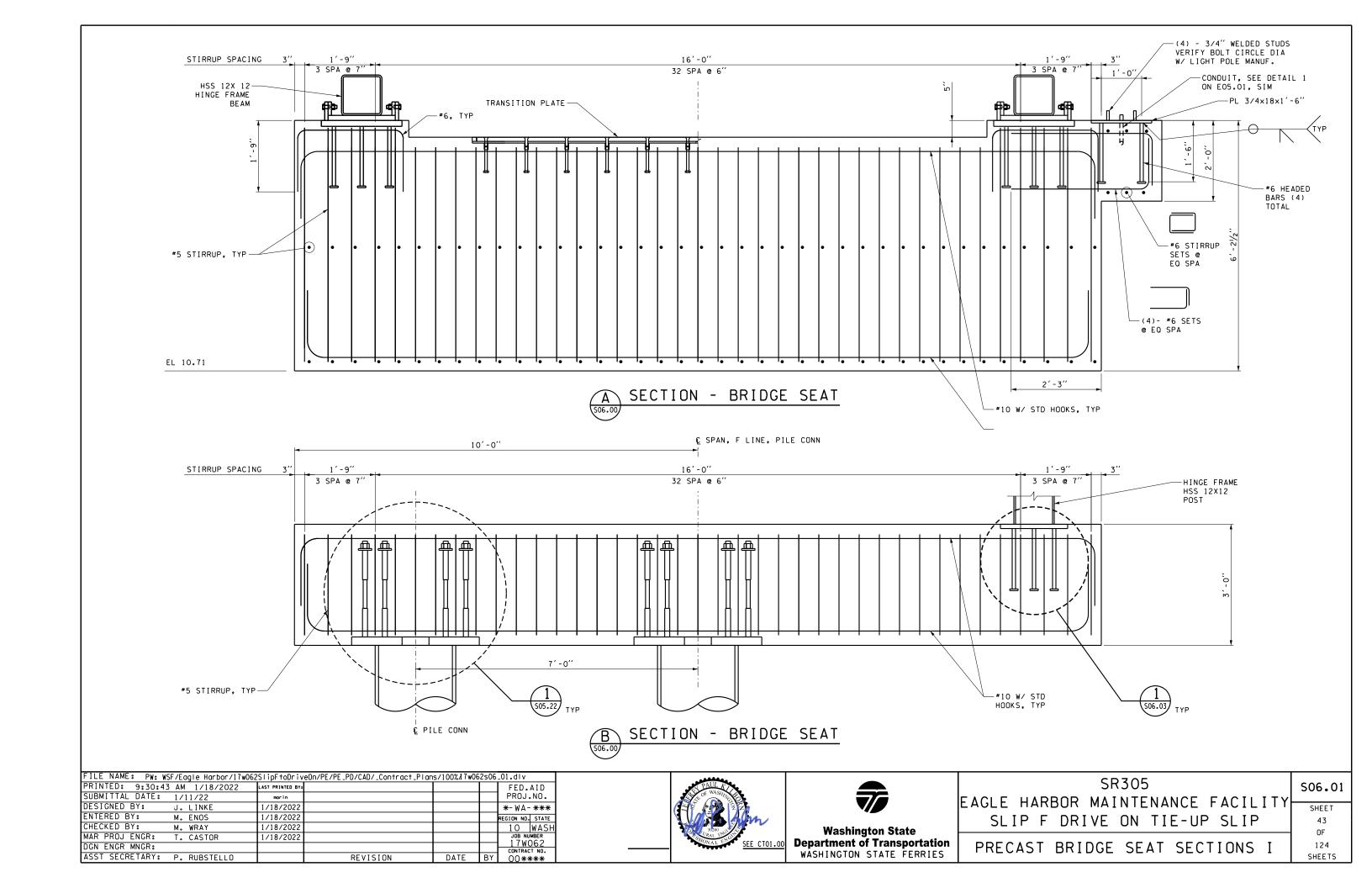


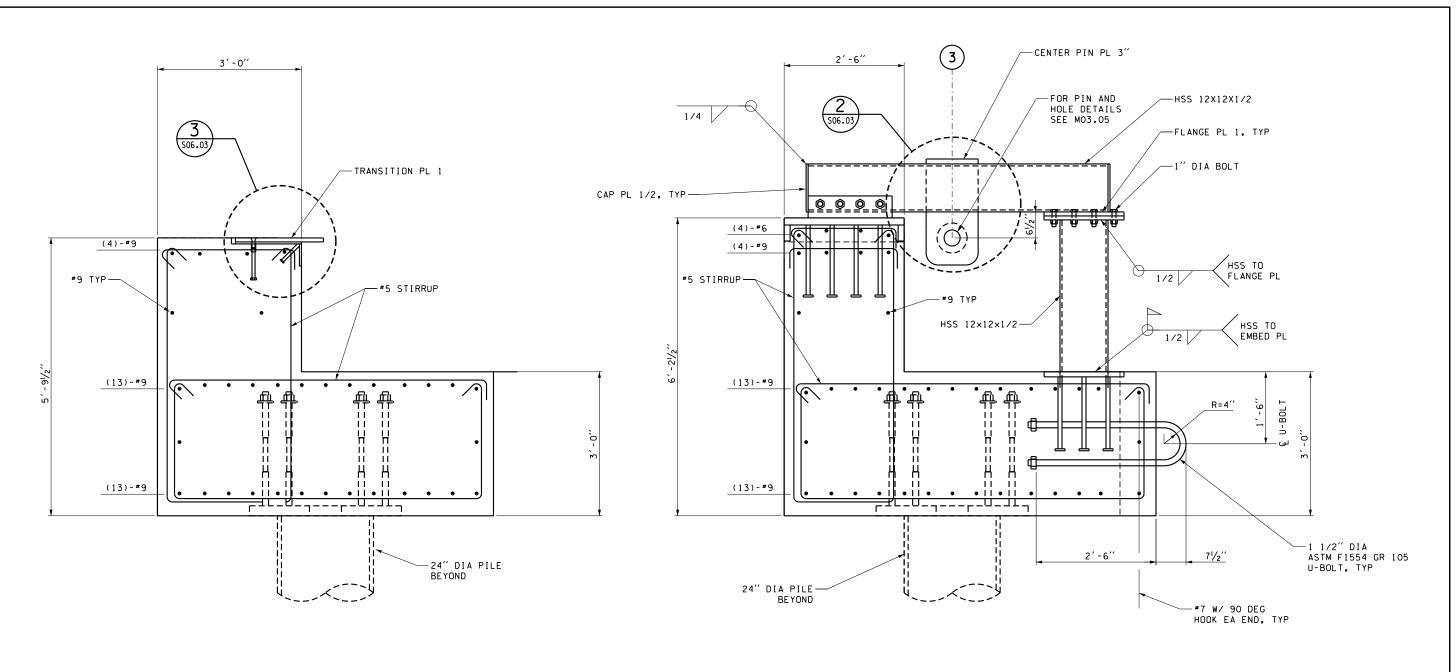


Washington State
Department of Transportation WASHINGTON STATE FERRIES

EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP PRECAST BRIDGE SEAT PLAN

SHEET 42 OF 124 SHEETS





A SECTION - BRIDGE SEAT

SECTION - BRIDGE SEAT

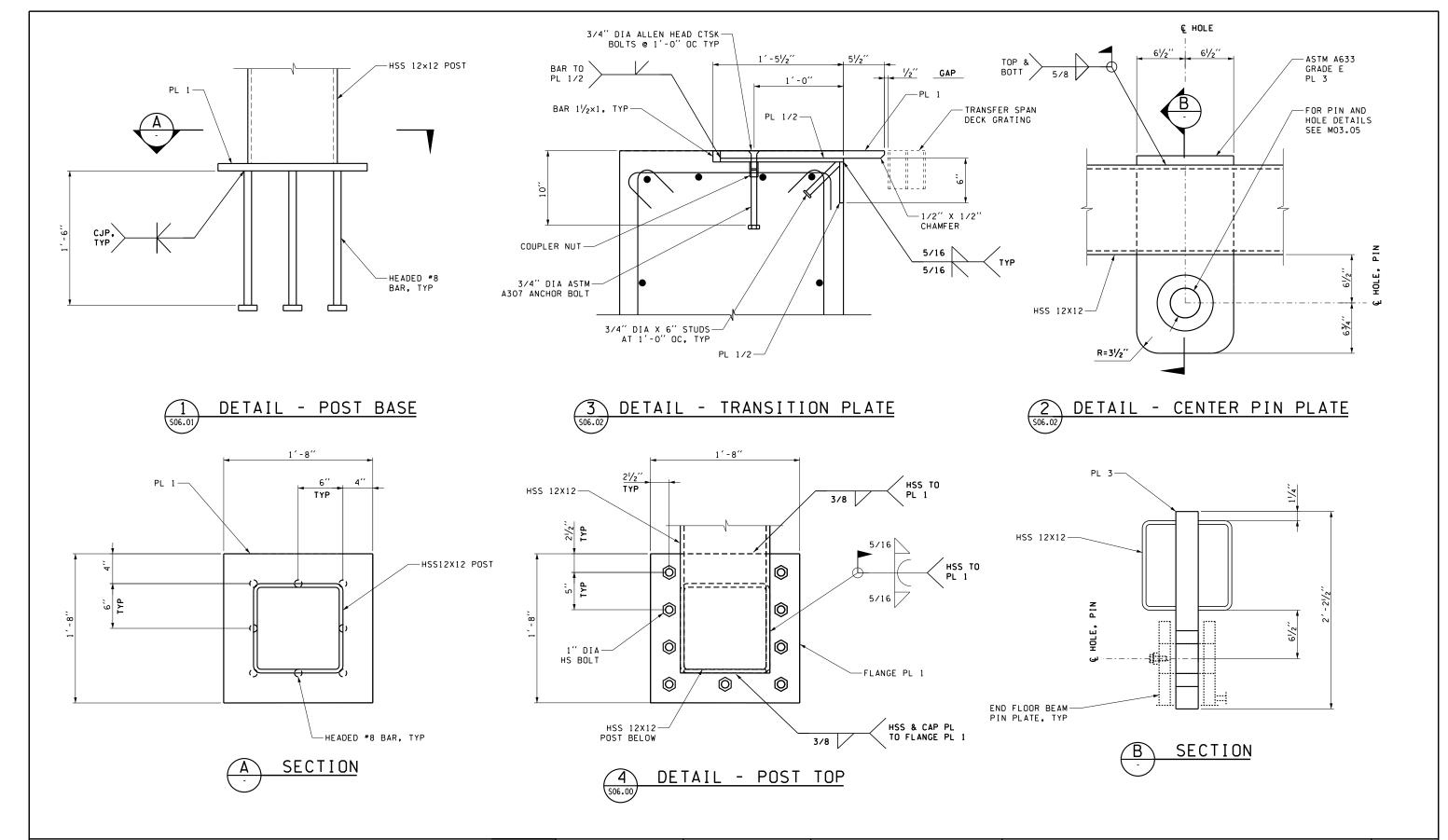
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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE	
CHECKED BY:	M. WRAY	1/18/2022				10 WASH	
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER	
DGN ENGR MNGR:						17W062	
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****	





Washington State
Department of Transportation WASHINGTON STATE FERRIES

SR305 AGLE HARBOR MAINTENANCE FACILITY	S06.02
SLIP F DRIVE ON TIE-UP SLIP	SHEET 44 OF
PRECAST BRIDGE SEAT SECTIONS II	124 SHEETS



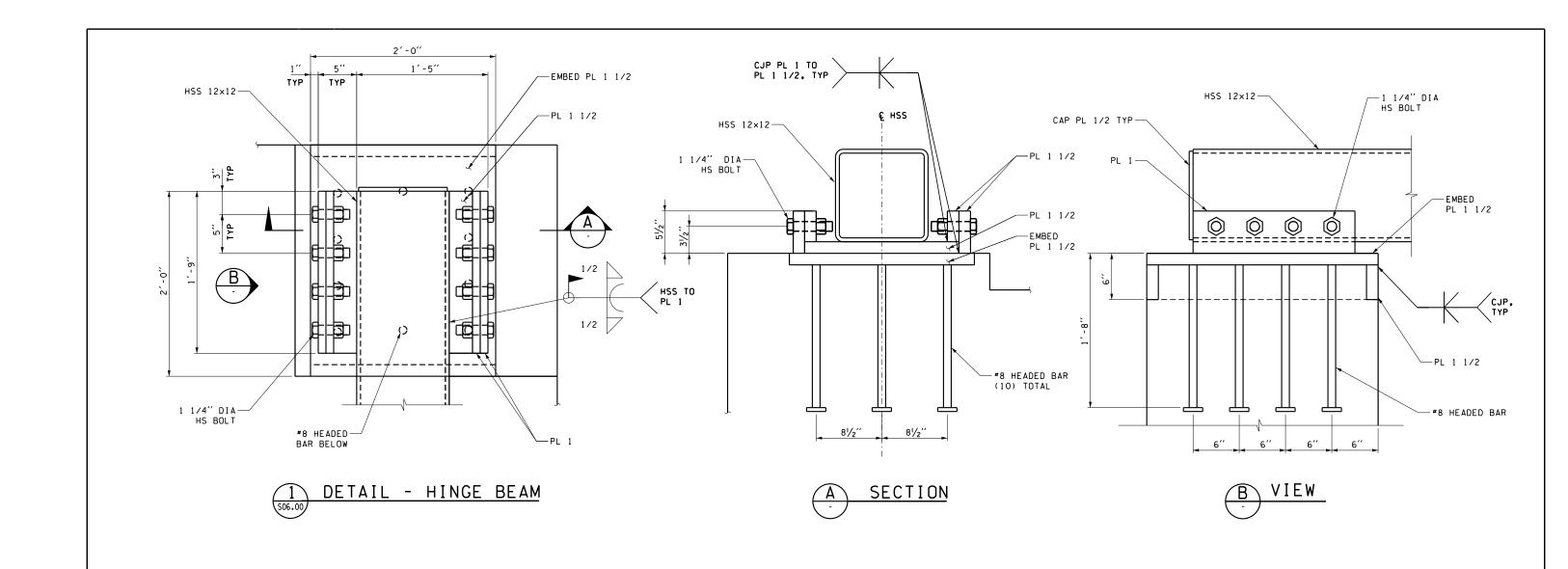
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DGN ENGR MNGR:						17W062	
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****	





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SR305			
EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP	SHEET 45 OF		
PRECAST BRIDGE SEAT DETAILS I	124		



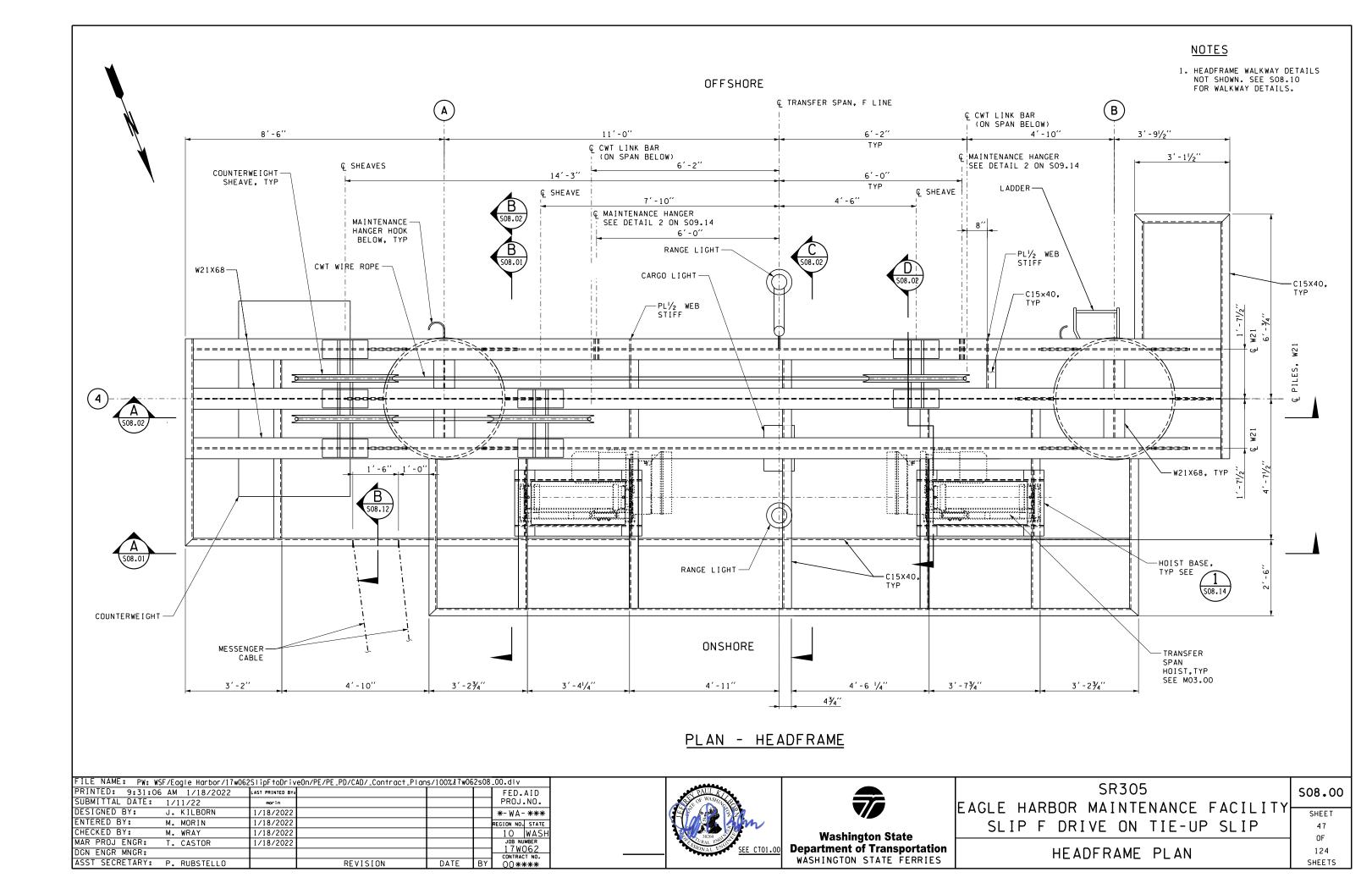
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CHECKED BY:	M. WRAY	1/18/2022				10 WASH		
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER		
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****		

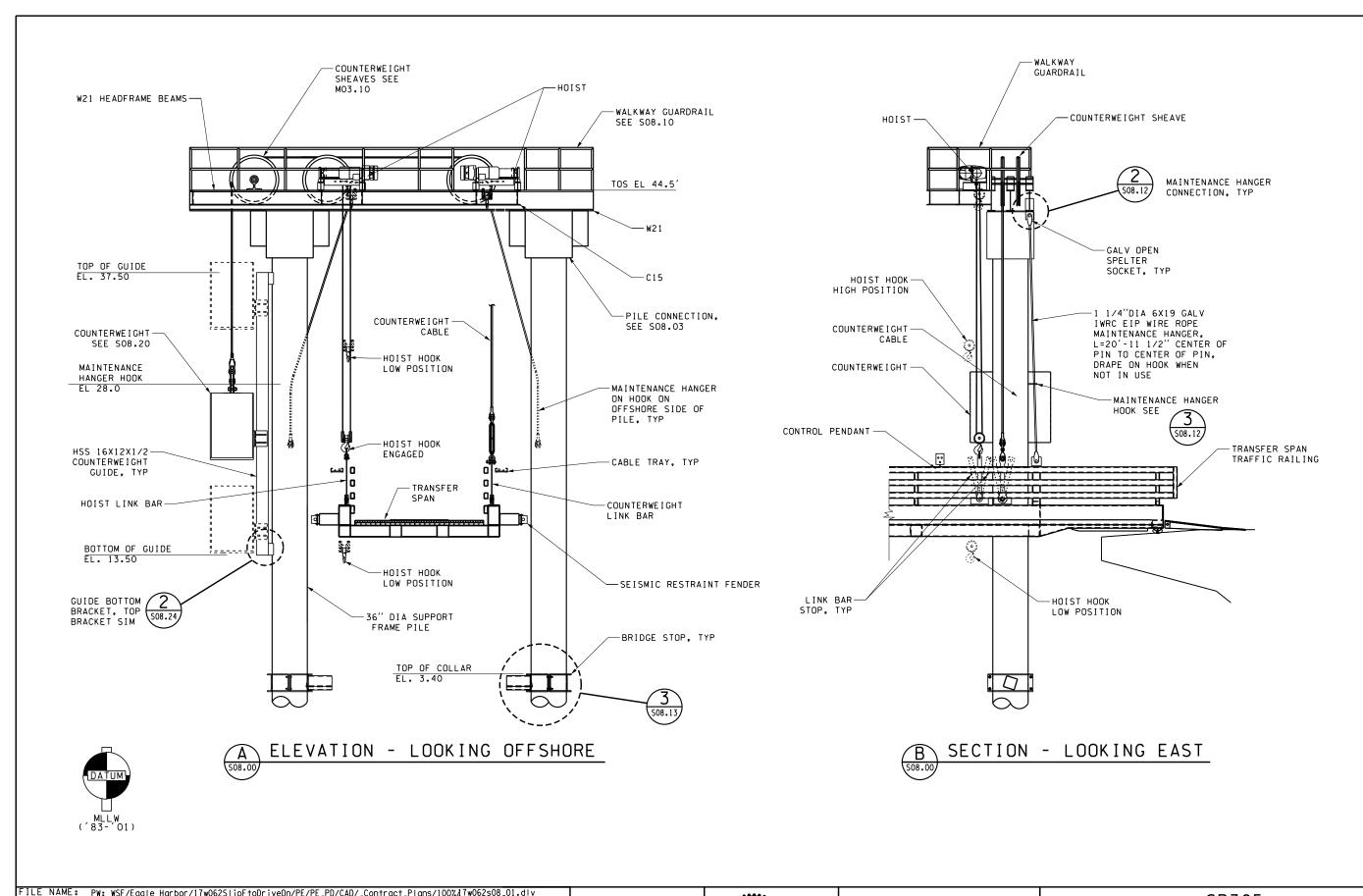




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SR305	506.04
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	46
	OF
PRECAST BRIDGE SEAT DETAILS II	124 SHEETS





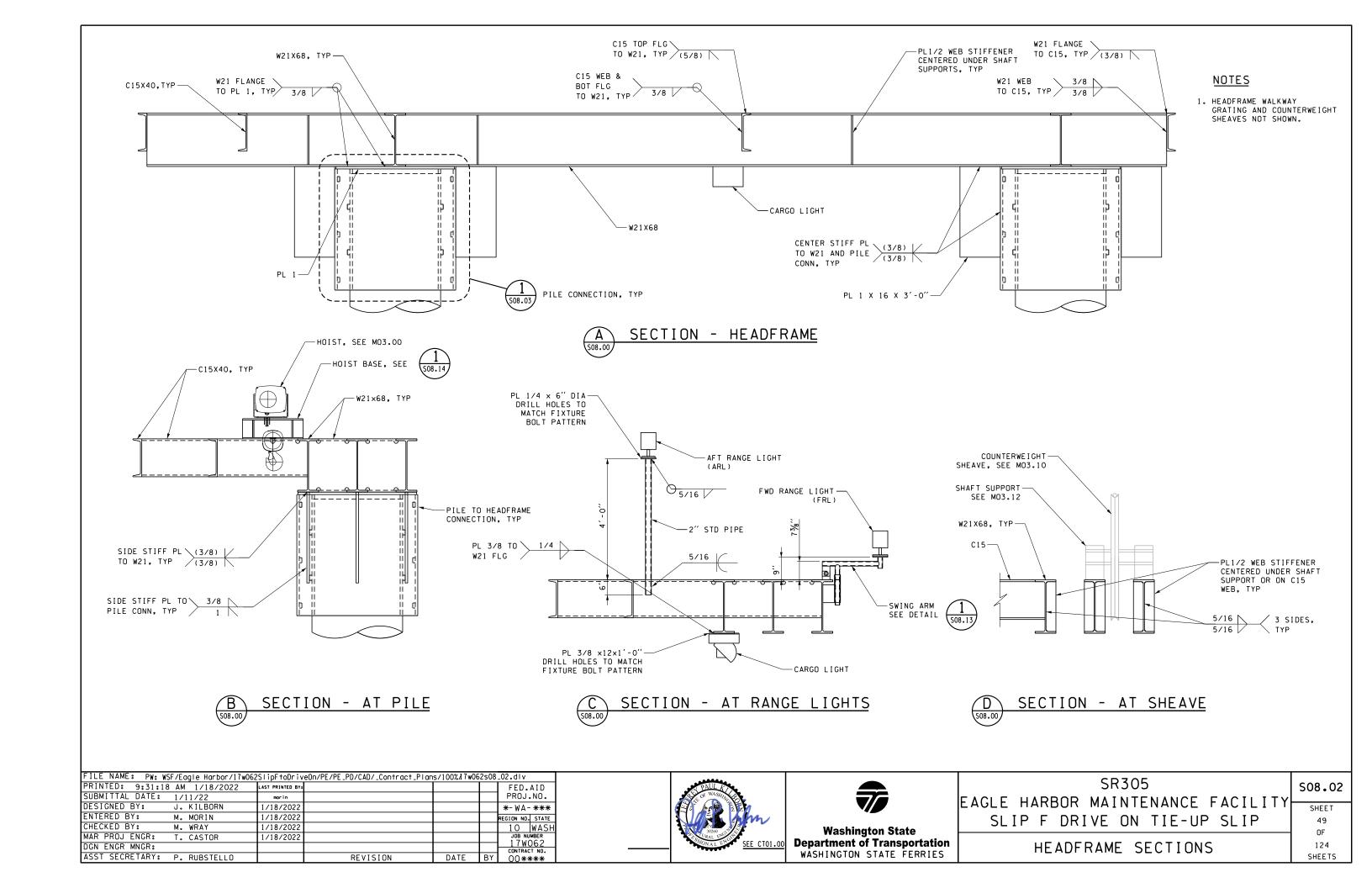
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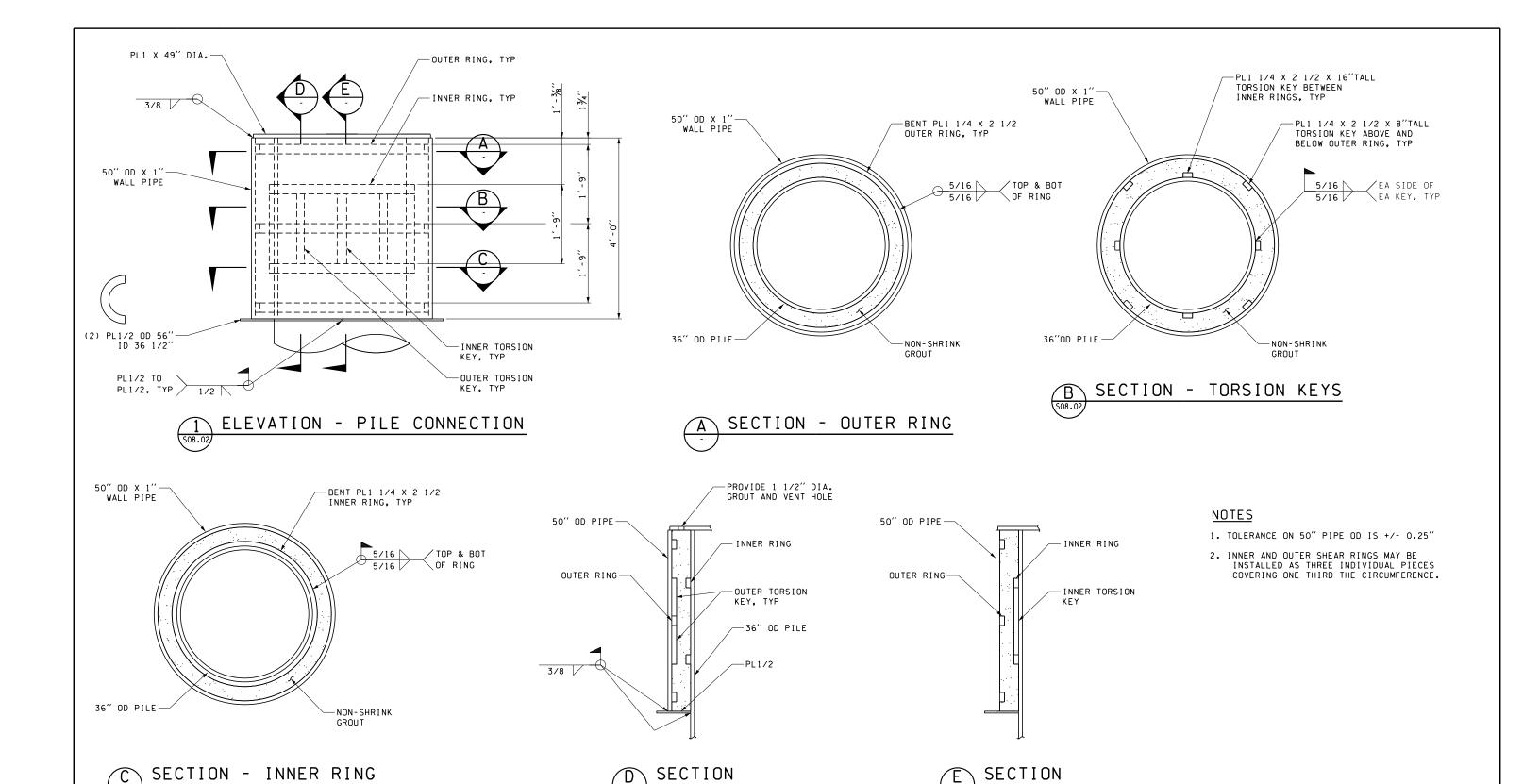




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SR305	508.01
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	48
	OF
HEADFRAME ELEVATIONS	124 SHEETS





	SF/Eagle Harbor/17w062	2SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	s/100%/17w06	2s08	_03.dlv
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





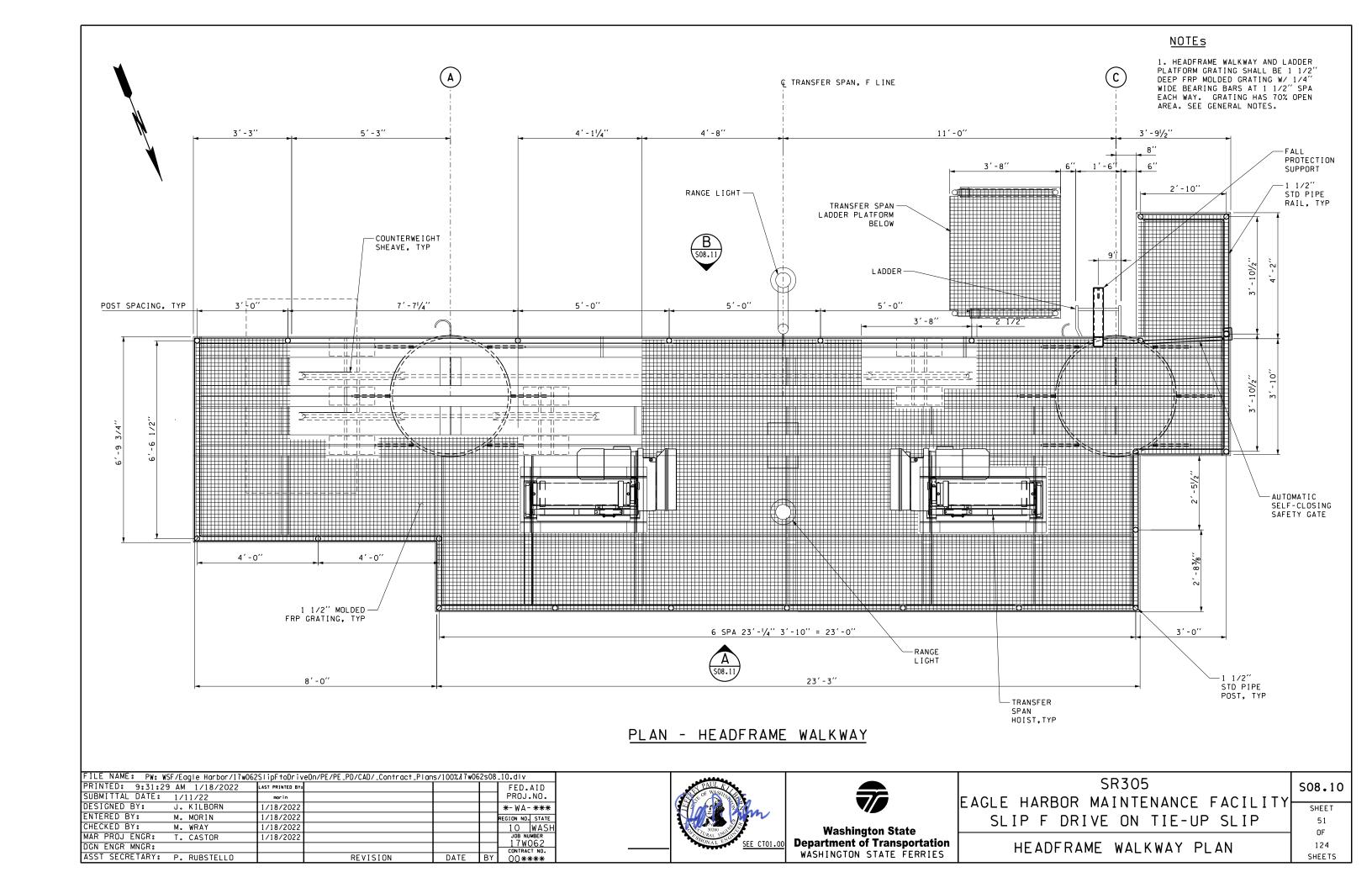
Washington State

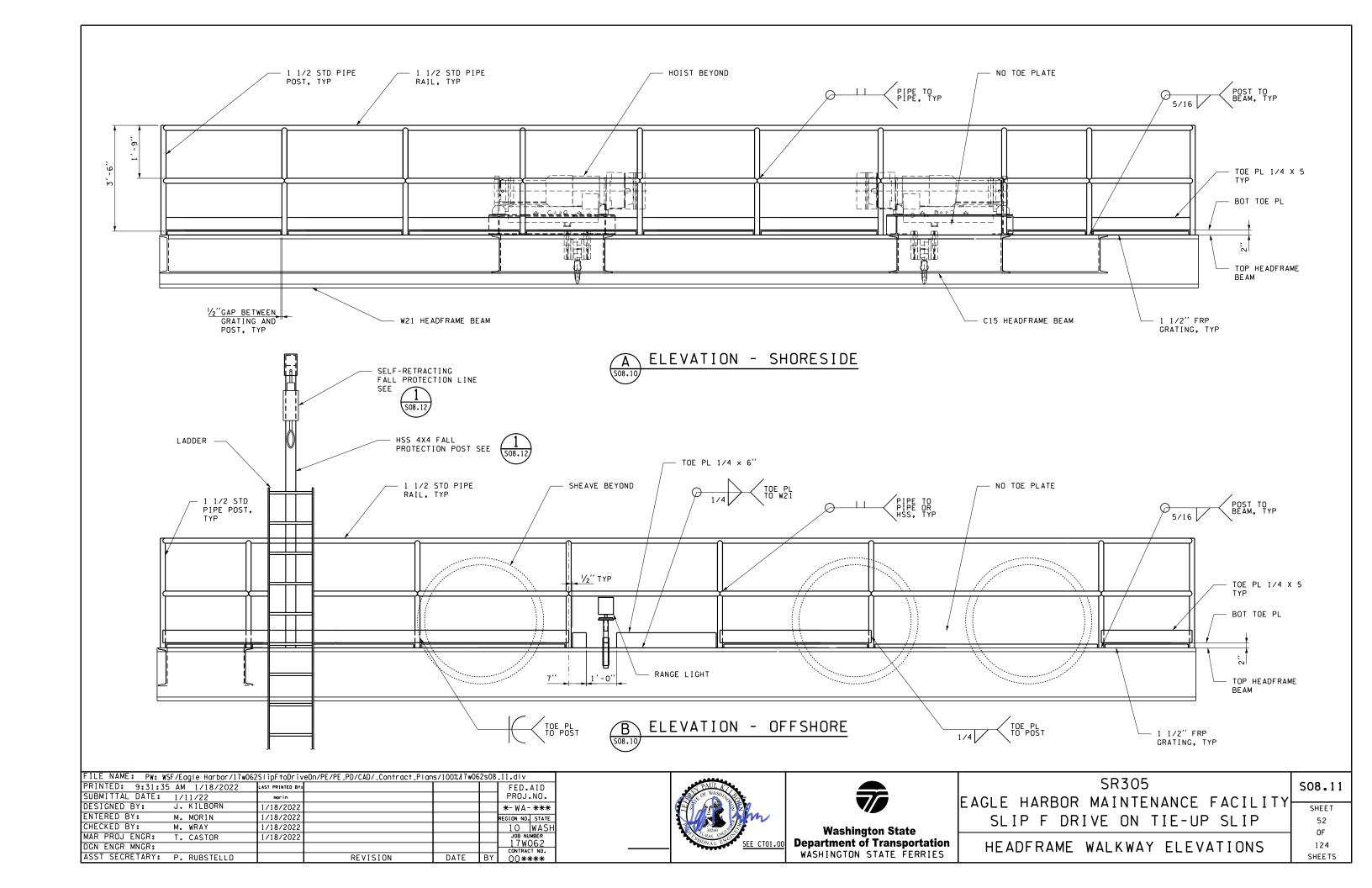
Department of Transportation
WASHINGTON STATE FERRIES

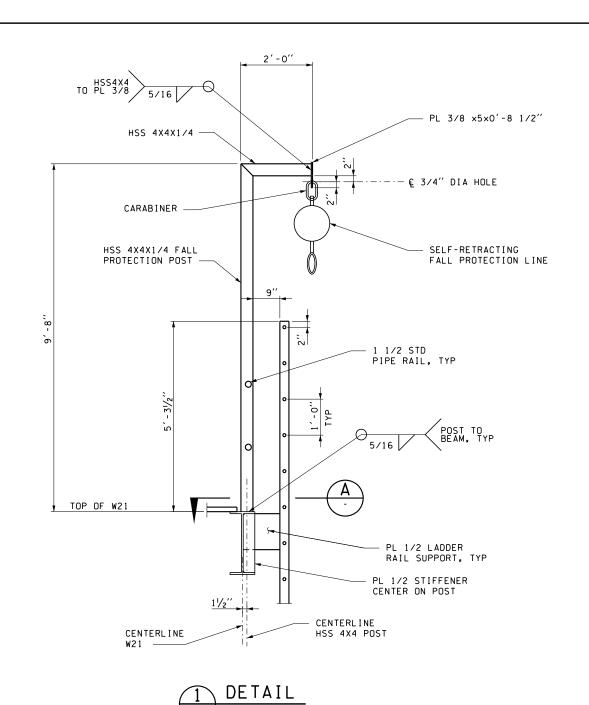
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SLIP F DRIVE ON TIE-UP SLIP
HEADFRAME TO PILE CONNECTION

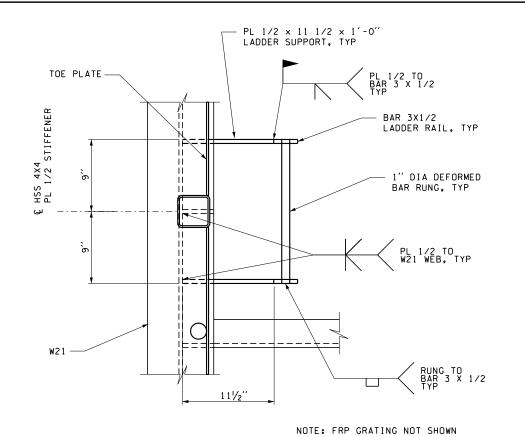
SO8.03

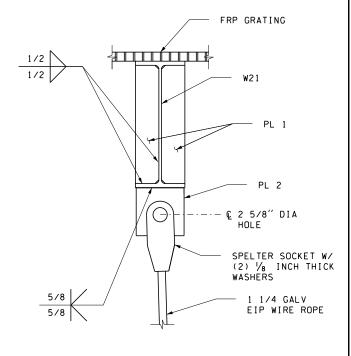
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SHEETS





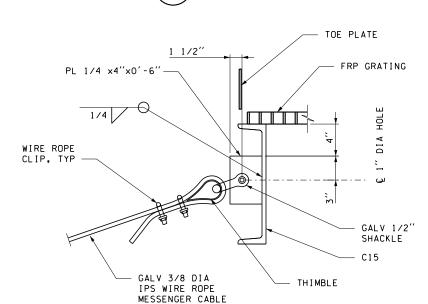




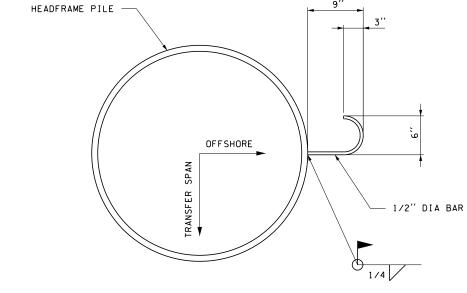


DETAIL - HANGER CONN

VIEW



DETAIL - HANGER HOOK



SECTION

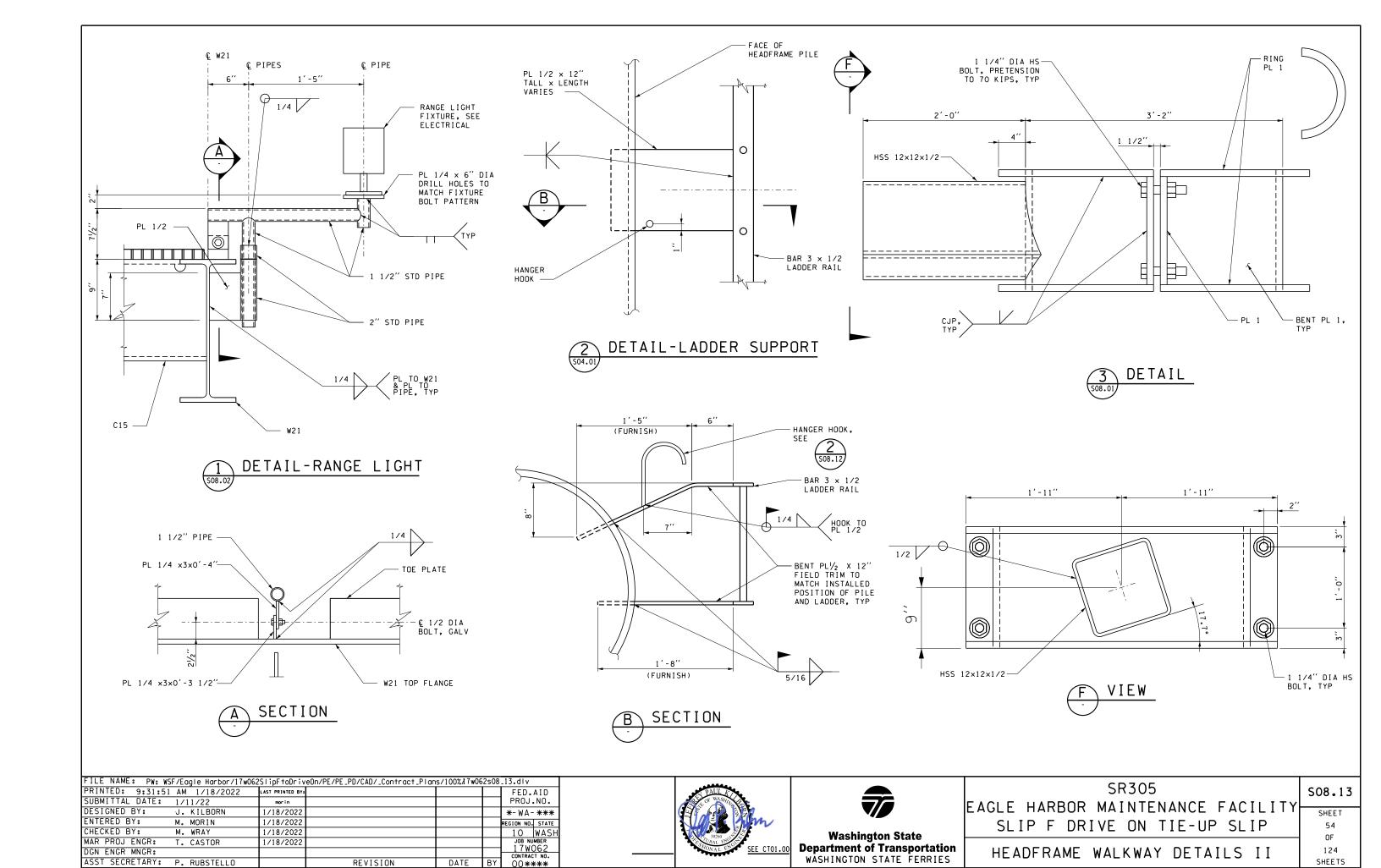
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CHECKED BY:	M. WRAY	1/18/2022				10 WASH
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DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

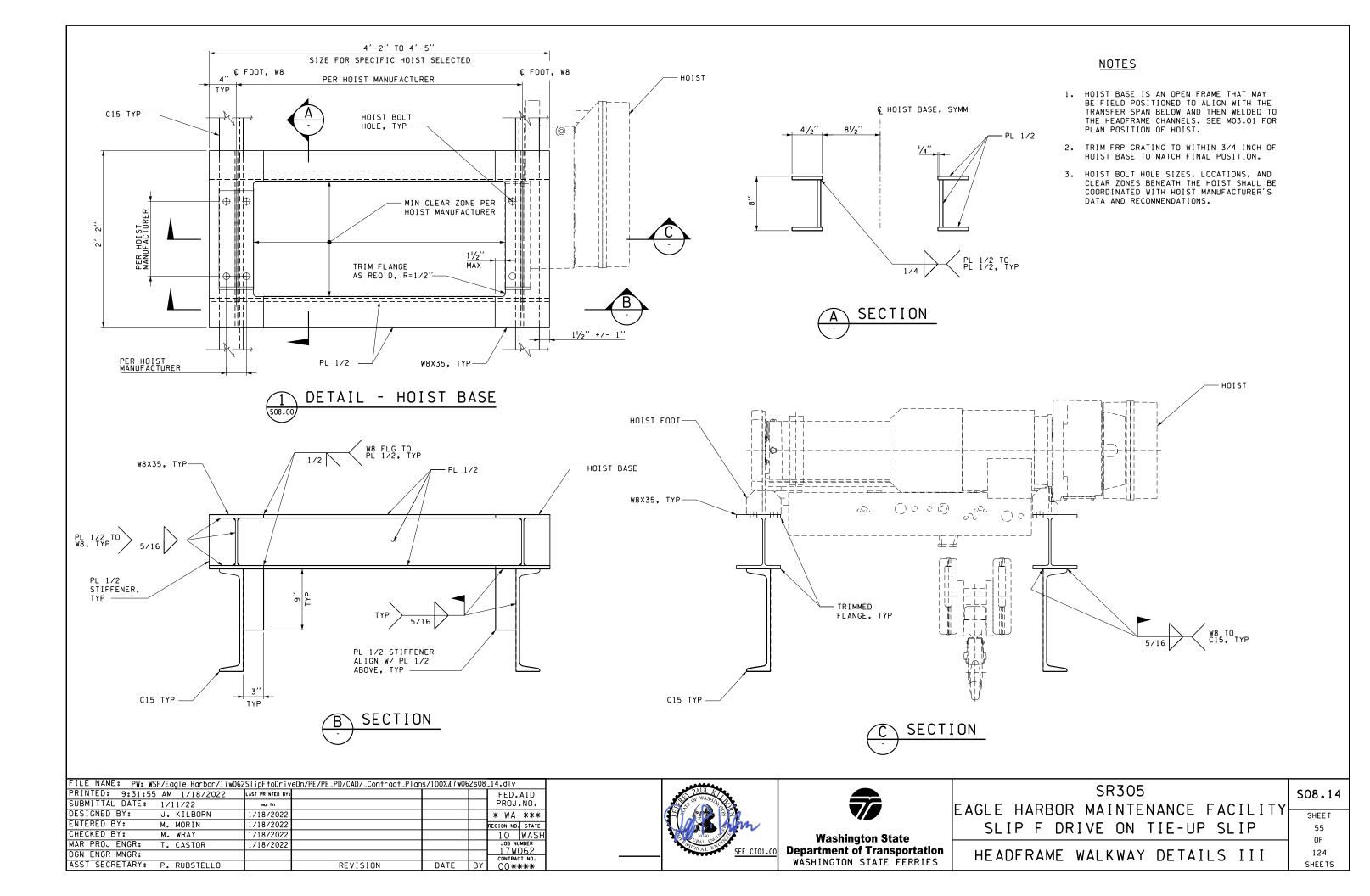




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Department of Transportation WASHINGTON STATE FERRIES

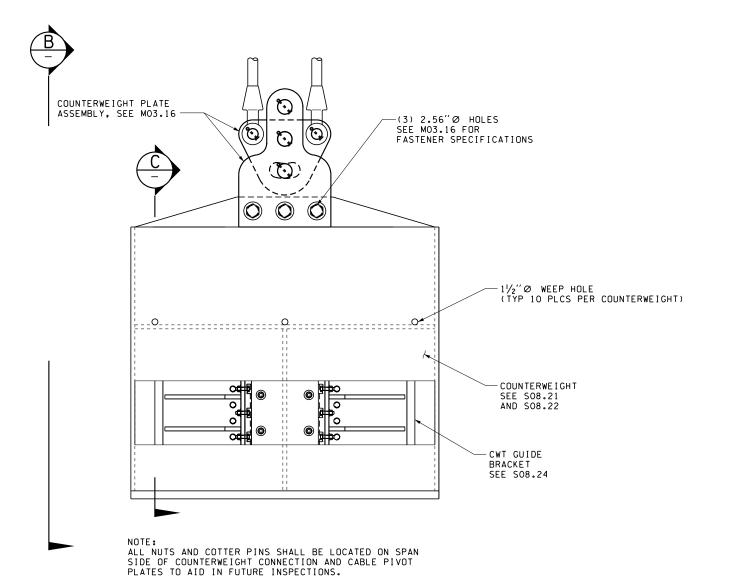
SR305	508.12
EAGLE HARBOR MAINTENANCE FACILITY	
	SHEET
SLIP F DRIVE ON TIE-UP SLIP	53
<u> </u>	OF
HEADEDAME WALKWAY DETAILS I	124
HEADFRAME WALKWAY DETAILS I	124

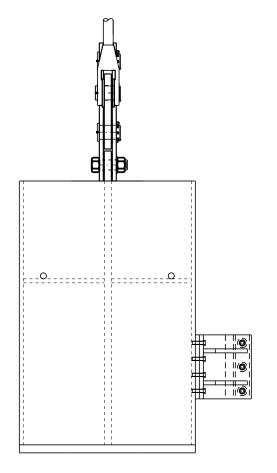


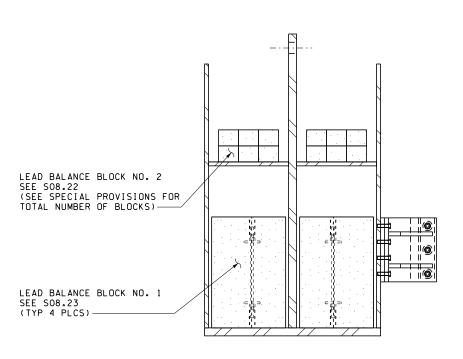


NOTES:

- 1. ALL BOLTED CONNECTIONS ARE SLIP-CRITICAL, SEE SECTION 6-03.3(33) OF THE CURRENT STANDARD SPECIFICATIONS FOR FURTHER INFORMATION ON BOLTED CONNECTIONS.
- 2. INSIDE AND OUTSIDE OF COUNTERWEIGHT SHALL BE COATED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.







A LEFT TOWER COUNTERWEIGHT ASSEMBLY

SPAN SIDE ELEVATION

B LEFT TOWER COUNTERWEIGHT ASSEMBLY
SHORE SIDE ELEVATION

C SECTION

\$08.20 SHEET 56

OF

124

SHEETS

- ILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%//w062S08_20.dlv								
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CHECKED BY:	J. FRISBY	1/18/2022				10	WASH	
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUM		7
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00**		





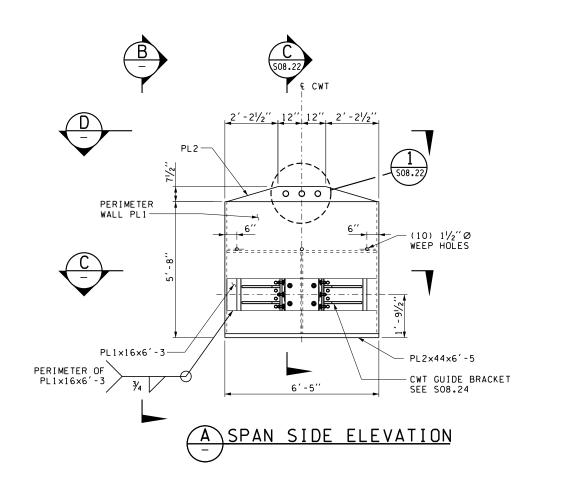


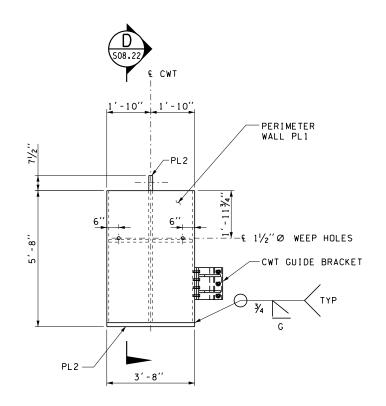
Washington State

Department of Transportation

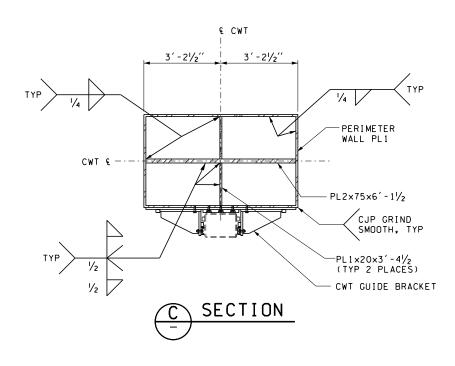
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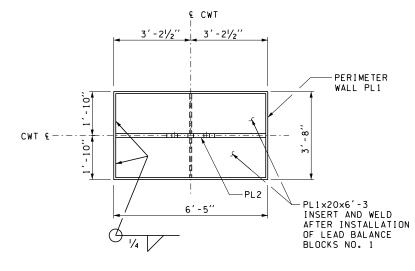
SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
SPAN COUNTERWEIGHT ASSEMBLY





B SHORE SIDE ELEVATION





D SECTION

FILE NAME: PW: W	SF/Eagle Harbor/17w062	2SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	s/100% <i>1</i> 7w06	2s08	_21.dlv	
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DESIGNED BY:	C. STEARNS	1/18/2022				*-WA-***	{
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE	
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MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER	ľ
DGN ENGR MNGR:						17W062	ł
ASST SECRETARY:	P RUBSTELLO		REVISION	DATE	RY	OO *****	ı





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Department of Transportation

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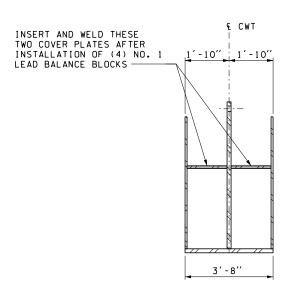
AGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP		SR305		
SLIP F DRIVE ON TIE-UP SLIP	AGLE HARBO	OR MAINTEN	NANCE FA	ACILITY
	SLIP F [ORIVE ON T	TIE-UP S	SLIP

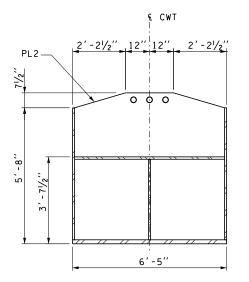
IP F DRIVE ON TIE-UP SLIP

COUNTERWEIGHT DETAILS I

57
0F
124
SHEETS

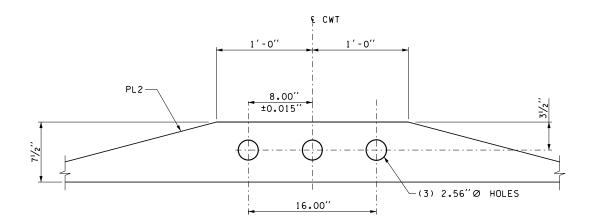
SO8.21













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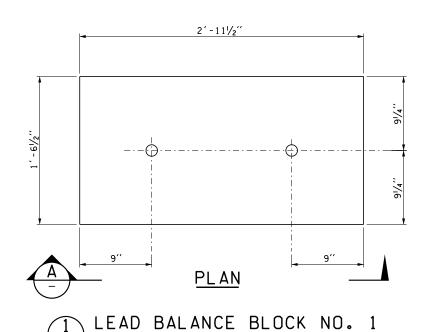


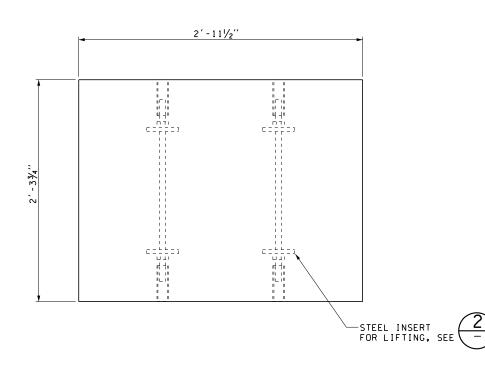
EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP		SR305	
SLIP F DRIVE ON TIE-UP SLIP	EAGLE HARBOR	MAINTENANCE	FACILITY
	SLIP F DR	IVE ON TIE-UP	SLIP

COUNTERWEIGHT DETAILS II

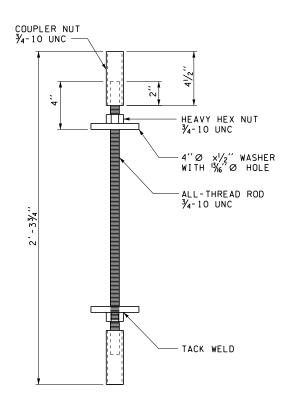
S08.22 SHEET 58

OF







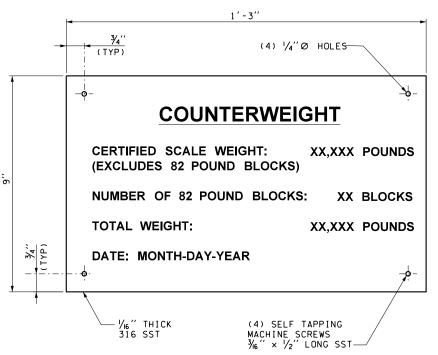




- 1. LEAD BALANCE BLOCK NO. 1 WITH STEEL INSERTS SHALL WEIGH APPROXIMATELY 7462 POUNDS.
- 2. LEAD BALANCE BLOCK NO. 2 SHALL HAVE DIMENSIONS 4"x5"x10" AND WEIGH APPROXIMATELY 82 POUNDS.

MATERIALS:

- 1. LEAD QQ-L-171, GRADE B
- 2. WASHERS: F436 TYPE 1.



- 1. ENGRAVE PLATE AFTER THE COMPLETION OF TRANSFER
- SPAN BALANCING.

- SPAN BALANCING.

 2. TOP LINE SHALL HAVE %" HIGH LETTERING.
 ALL OTHER LINES SHALL HAVE %" HIGH LETTERING.

 3. ALL LETTERING SHALL HAVE A BLACK FILL AFTER ENGRAVING.

 4. PLATE TO BE PLACED ON TRANSFER SPAN HANDRAIL IN FRONT OF COUNTERWEIGHT, SEE

 SOB. 01



FILE NAME: PW: W	SF/Eagle Harbor/17w06	2SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	ns/100% <i>1</i> 7w06	2s08	_23.dlv	Т
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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE	1
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00.11.21.101	1







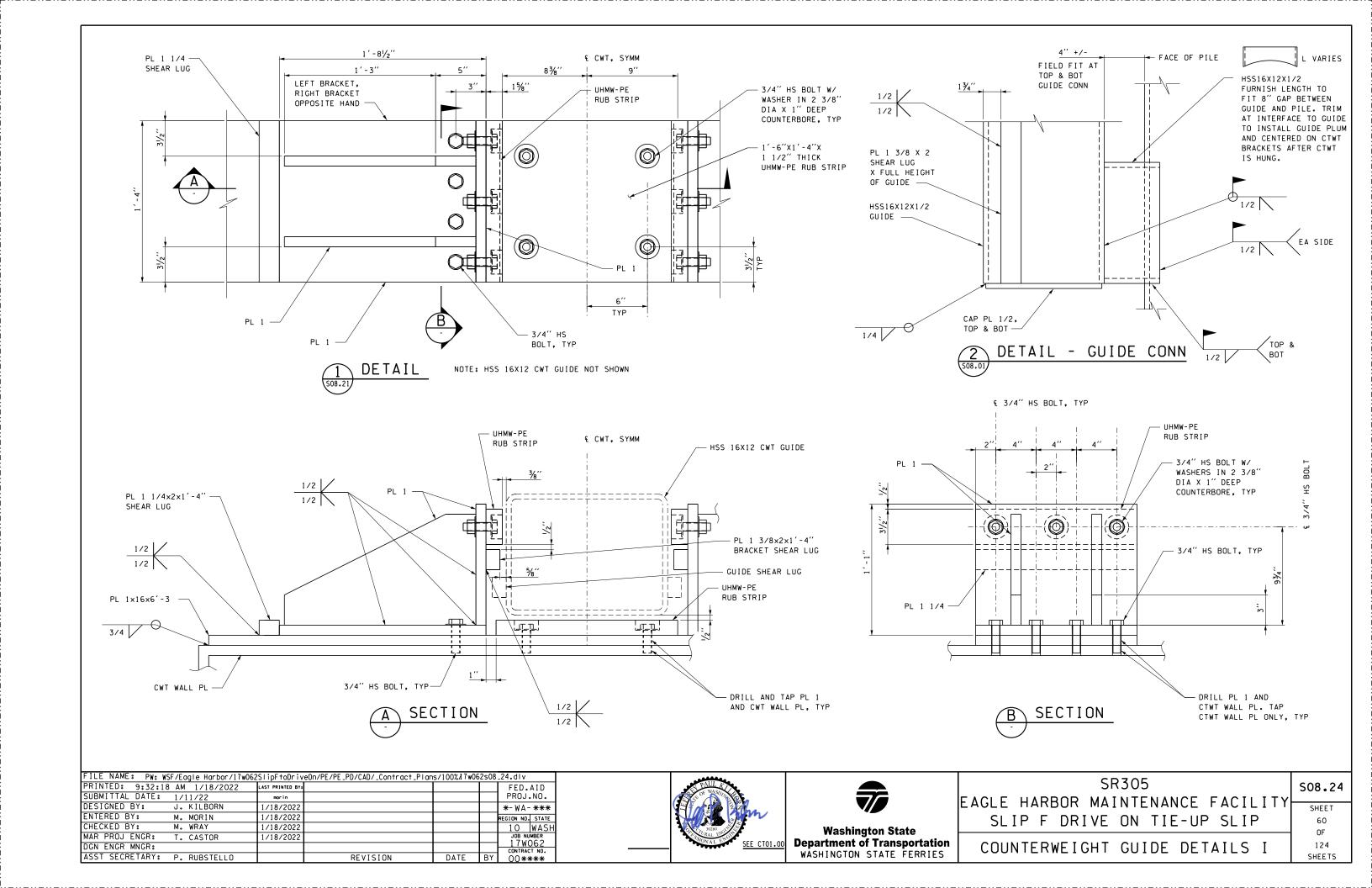
Washington State
Department of Transportation WASHINGTON STATE FERRIES

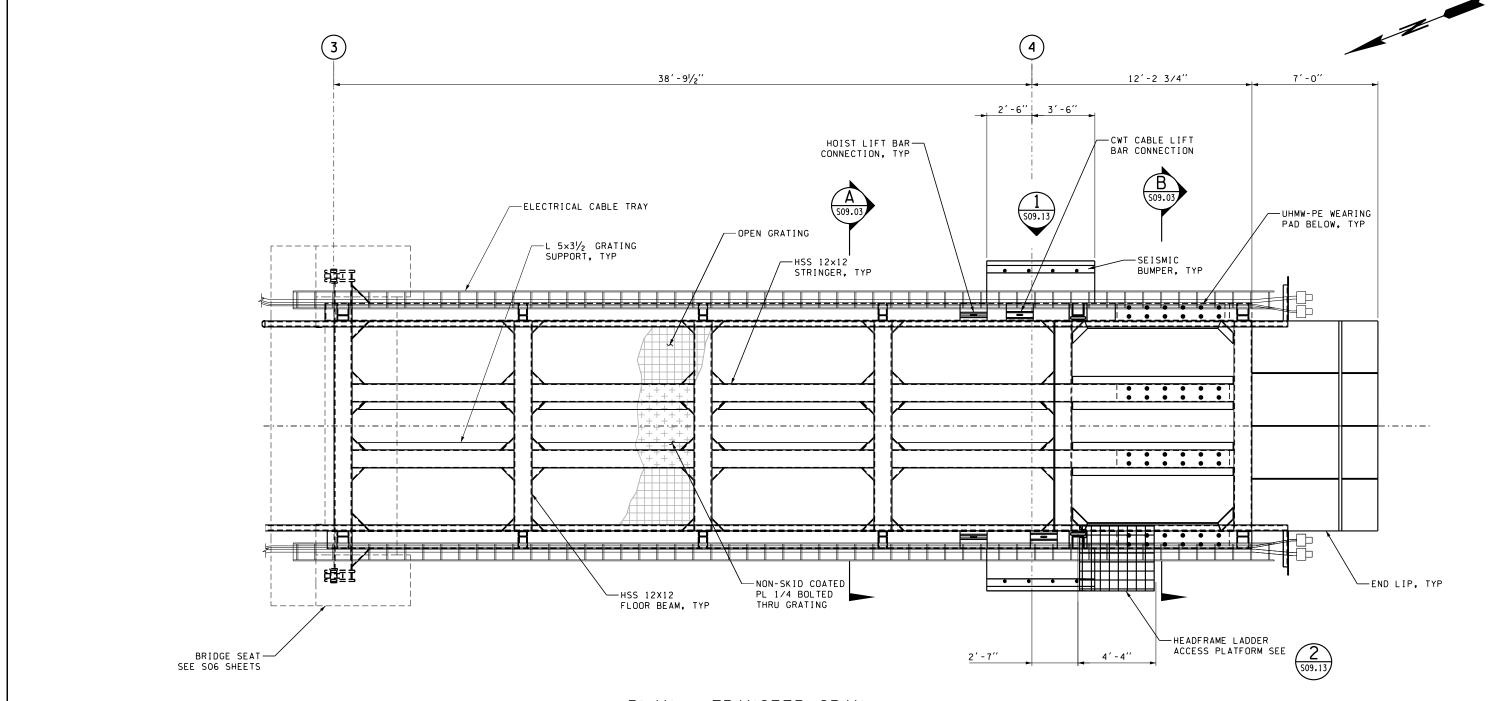
SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

LEAD BALANCE BLOCKS

S08.23 SHEET

> 59 OF 124 SHEETS





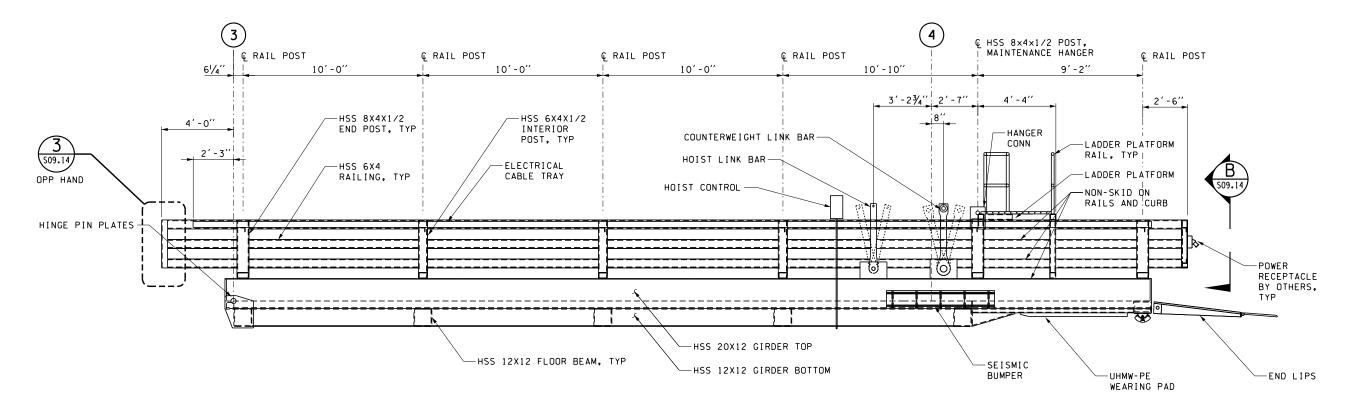
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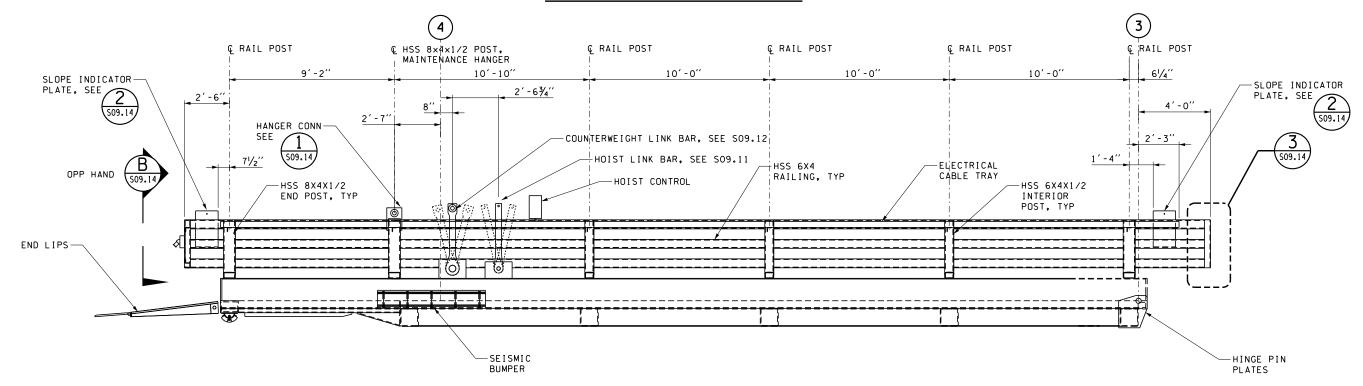


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Washington State Department of Transportation							
WASHINGTON STATE FERRIES							

SR305	509.00
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	61
TRANSFER SPAN ASSEMBLY PLAN	0F 124
	SHEETS



ELEVATION - RIGHT SIDE



ELEVATION - LEFT SIDE

NOTE: FOR INFORMATION NOT SHOWN SEE RIGHT SIDE ELEVATION

FILE NAME: PW: W	SF/Eagle Harbor/17w06	S2SIipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	s/100% <i>1</i> 7w06	32s09	_01.dlv
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Department of Transportation WASHINGTON STATE FERRIES

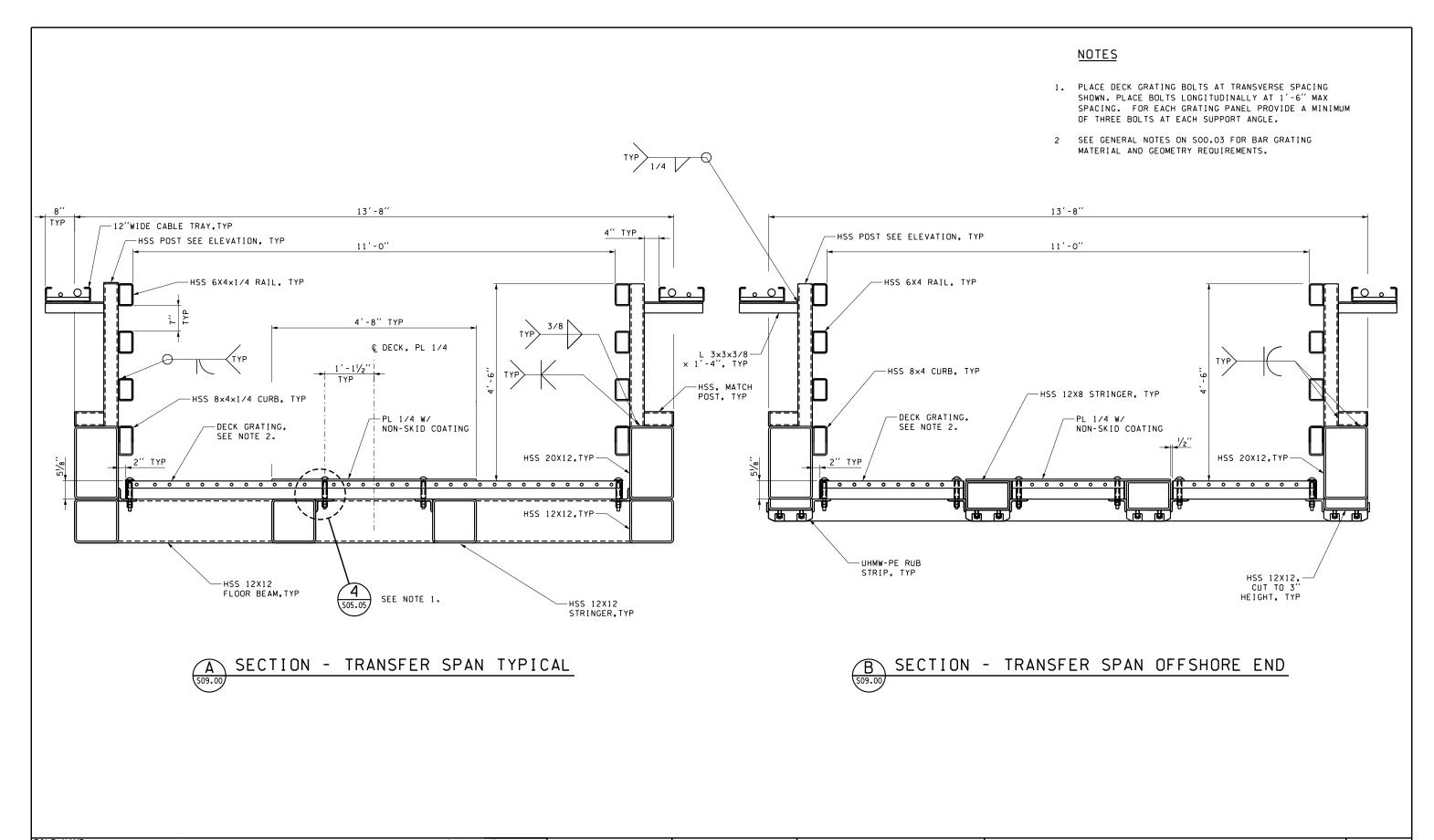
SR305 509.01 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP TRANSFER SPAN EXTERIOR ELEVATIONS

SHEET

62

OF

124

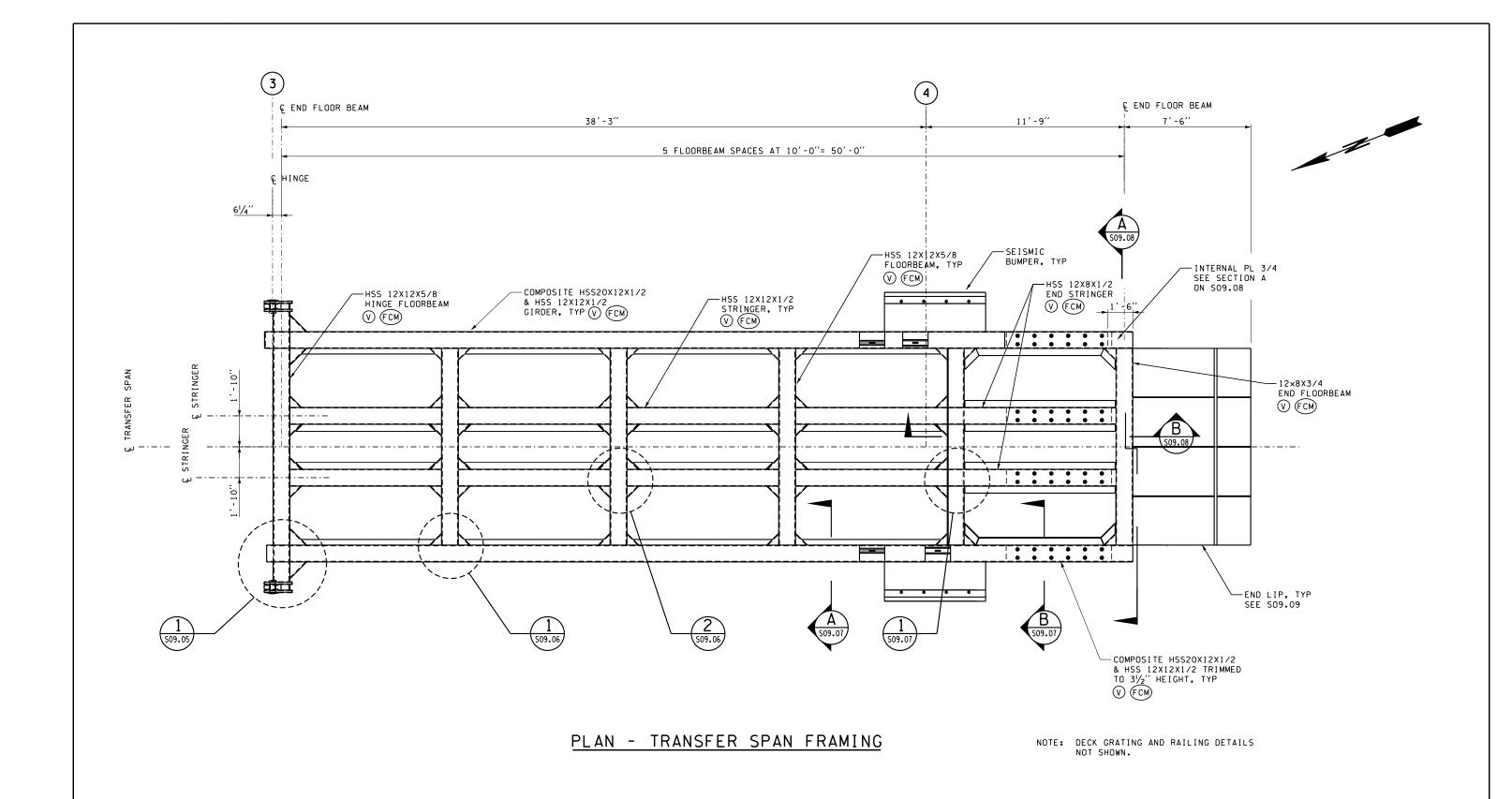


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DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





SR305	509.03
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	63
	OF
TRANSFER SPAN SECTIONS	124
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	ΒY	00****





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WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITYSLIP F DRIVE ON TIE-UP SLIP
TRANSFER SPAN FRAMING PLAN

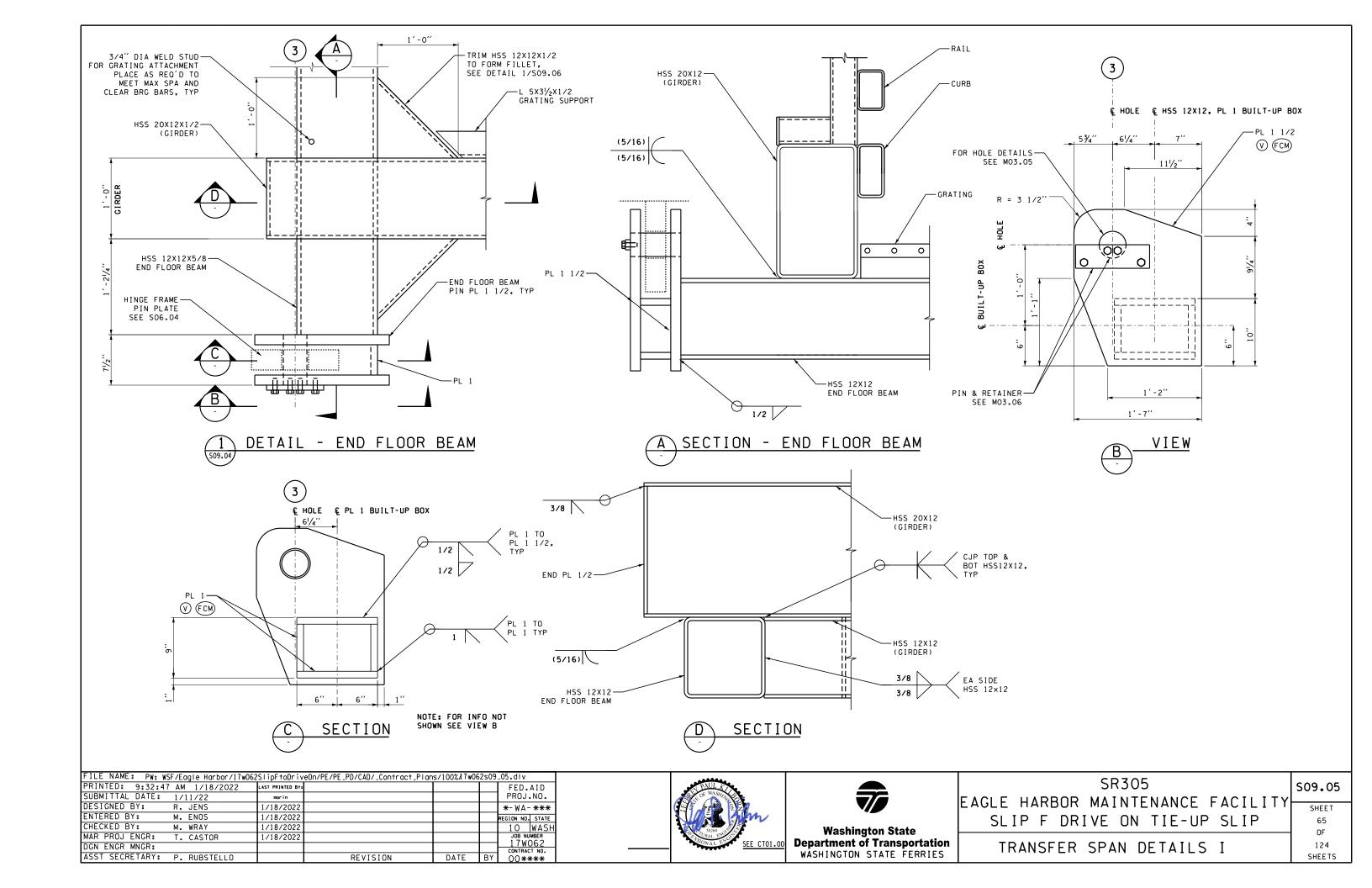
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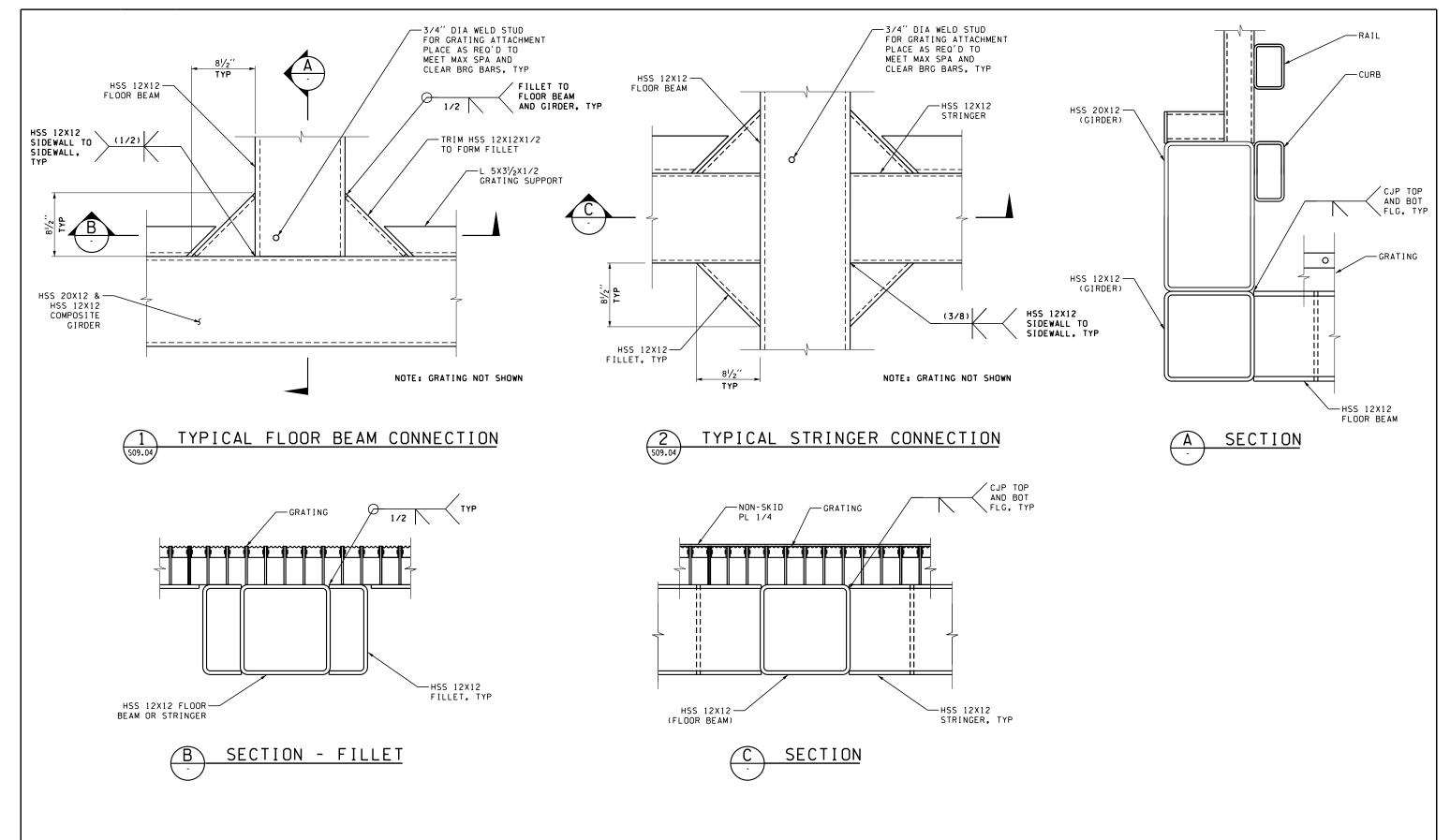
SHEET

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OF

124



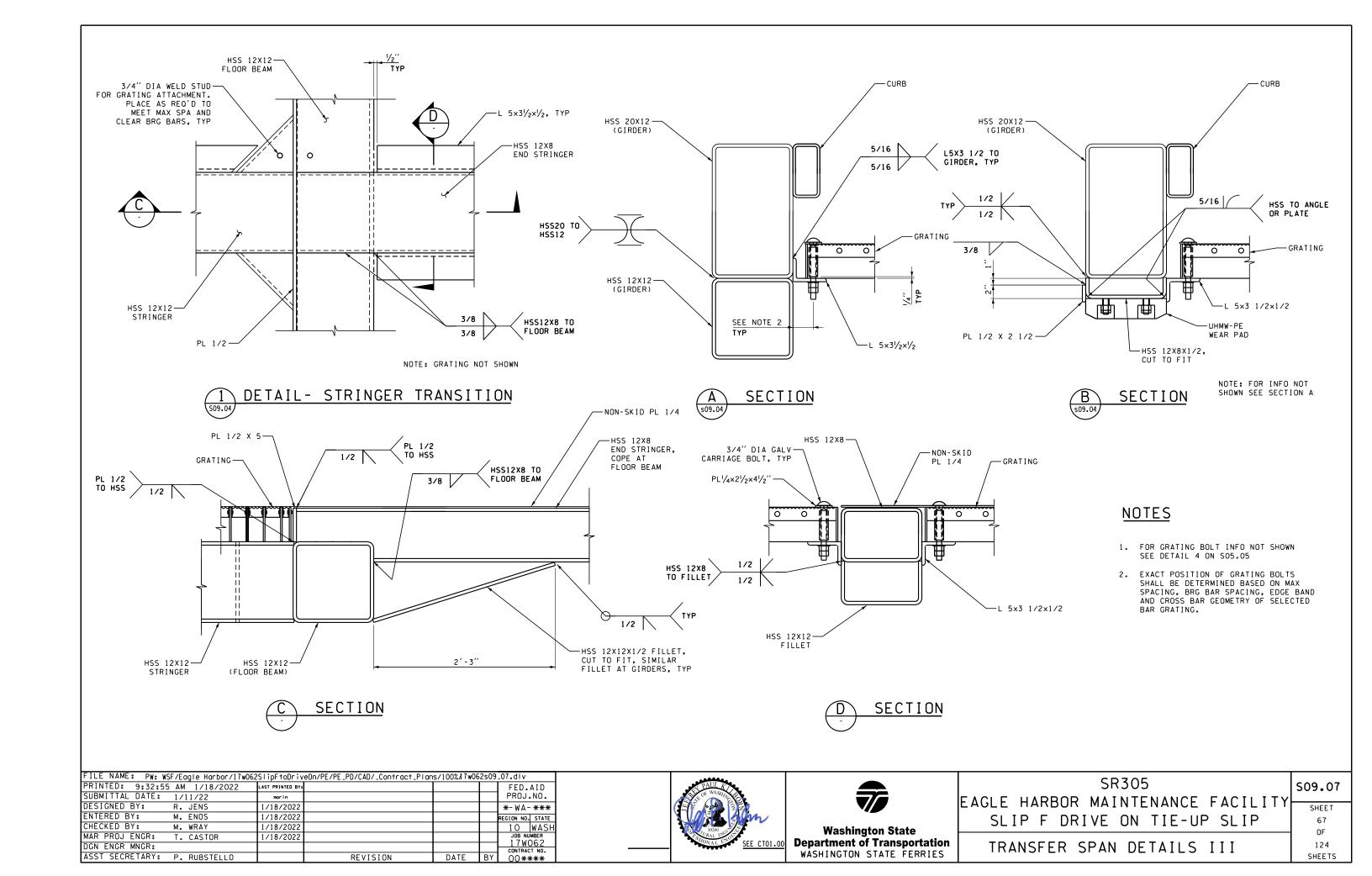


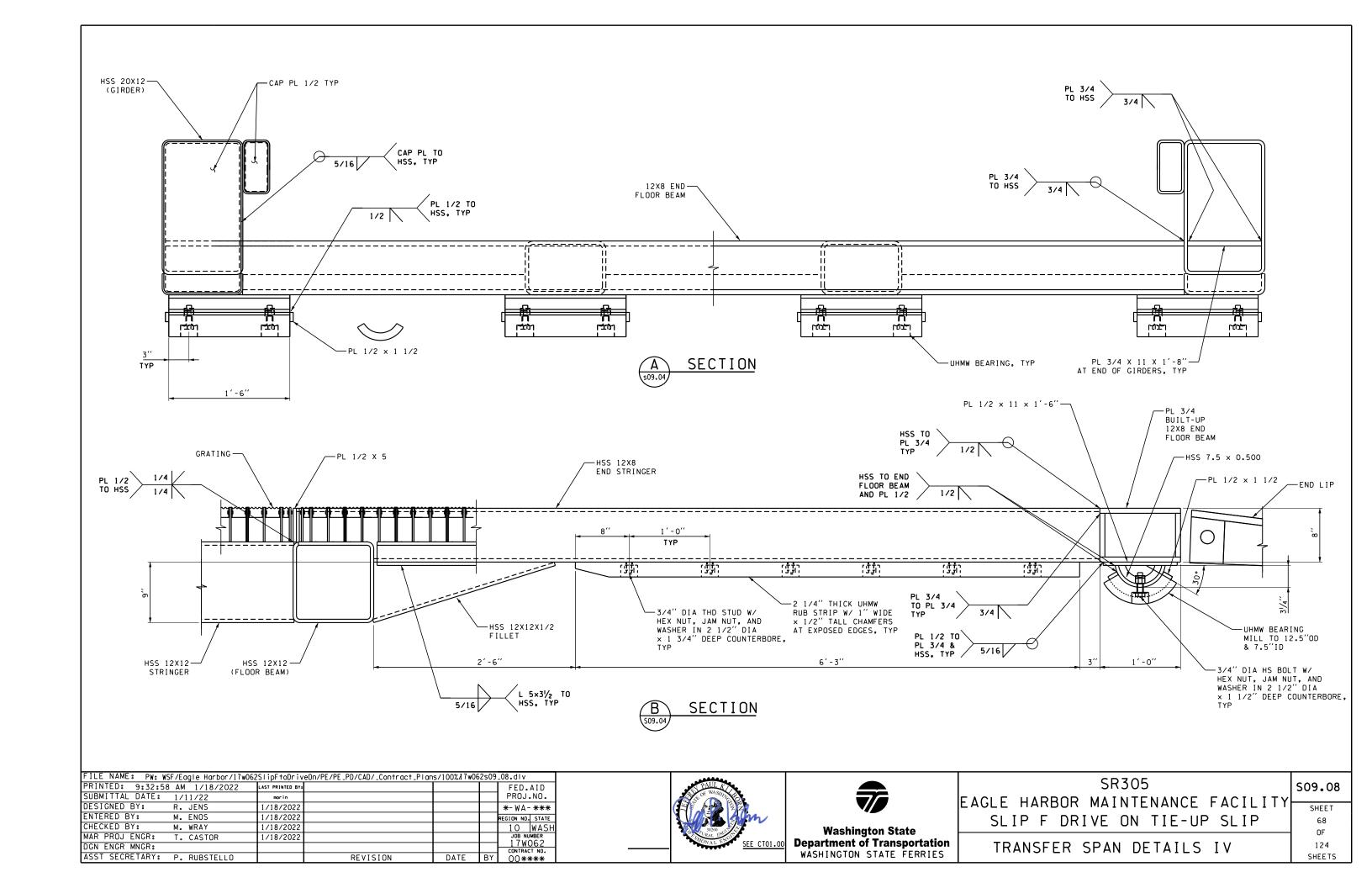
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ENTERED BY:	J. KILBORN	1/18/2022				REGION NO. STATE
CHECKED BY:	M. WRAY	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

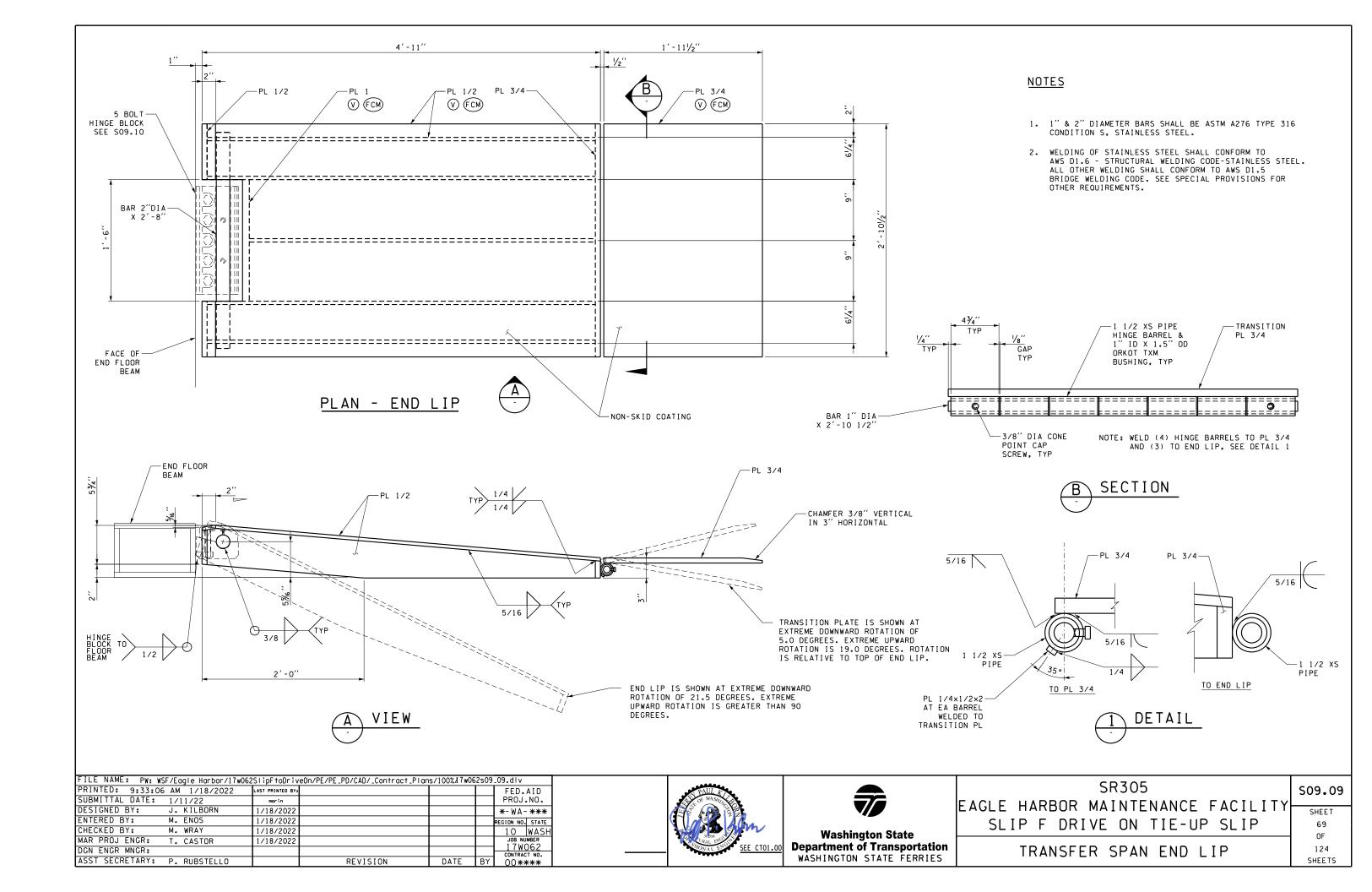


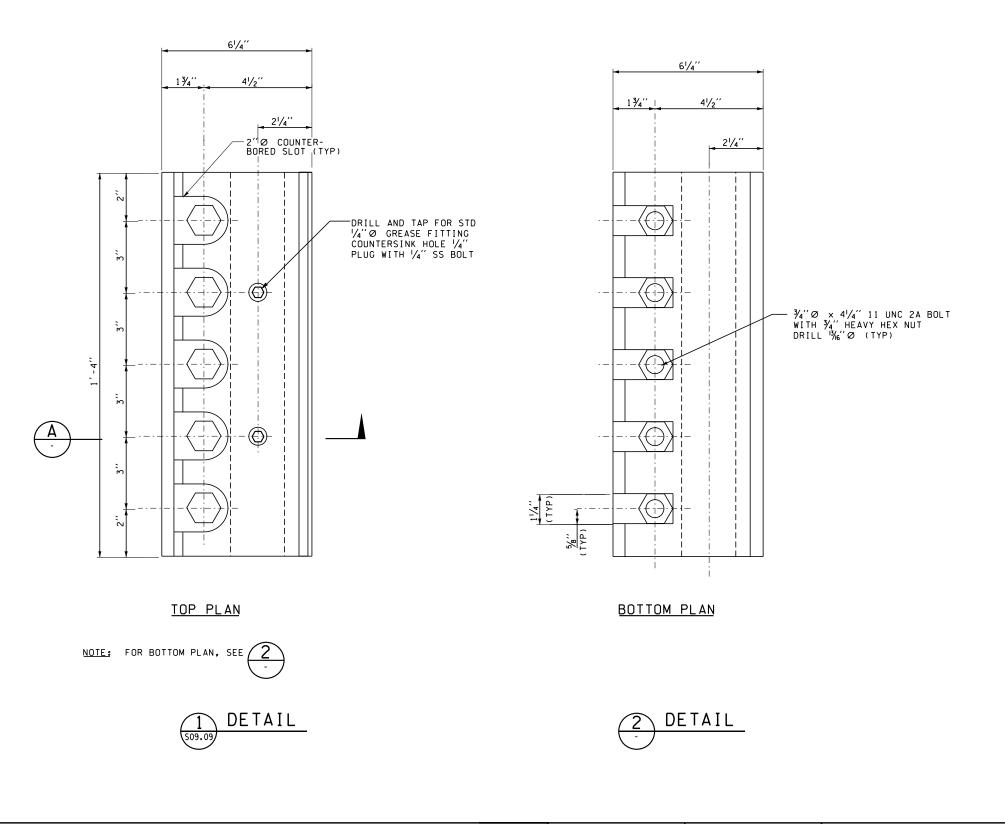


SR305 EAGLE HARBOR MAINTENANCE FACILITY	509.06
SLIP F DRIVE ON TIE-UP SLIP	SHEET 66 OF
TRANSFER SPAN DETAILS II	124 SHEETS







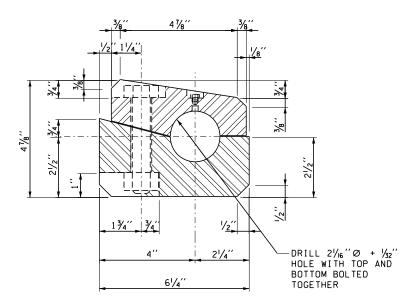


MATERIALS NOTES:

- 1. PLATES: ASTM A709 GRADE 50
- 2. STRUCTURAL STEEL BOLTS: ASTM A490
- 3. GREASE FITTING PLUG: STAINLESS STEEL

CONSTRUCTION NOTES:

- 1. ¾"∅ BOLTS SHALL BE INSTALLED SNUG TIGHT.
- 2. GREASE HEAVILY.





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CHECKED BY:	M. WRAY	1/18/2022				10 WASH
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DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****



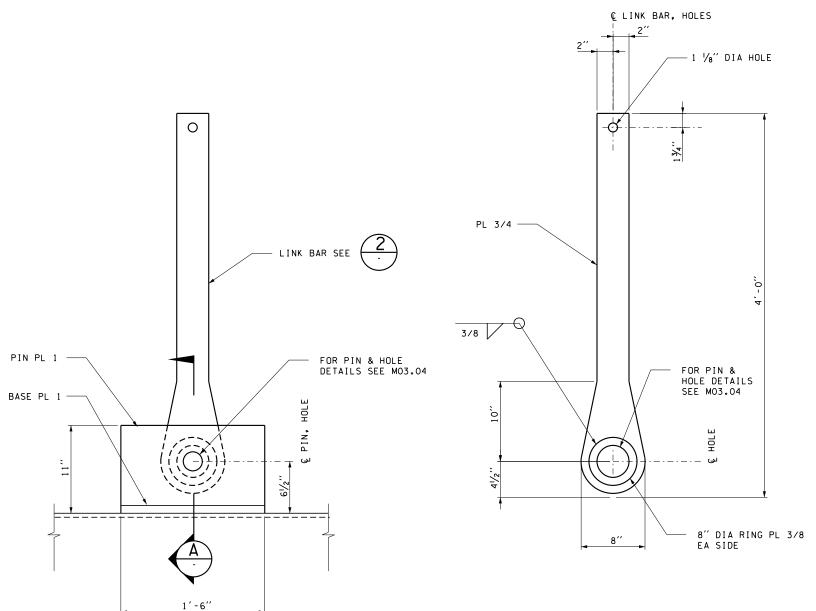


Washington State
Department of Transportation
WASHINGTON STATE FERRIES

SR305
AGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
END LIP 5 BOLT HINGE BLOCK

S09.10 SHEET 70

OF



17/6"
LIFT BAR

(5/16)

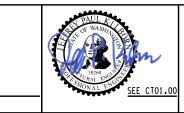
HSS CURB, PLACE AFTER LINK BAR ASSEMBLY

SECTION

DETAIL- HOIST LINK BAR ASSEMBLY

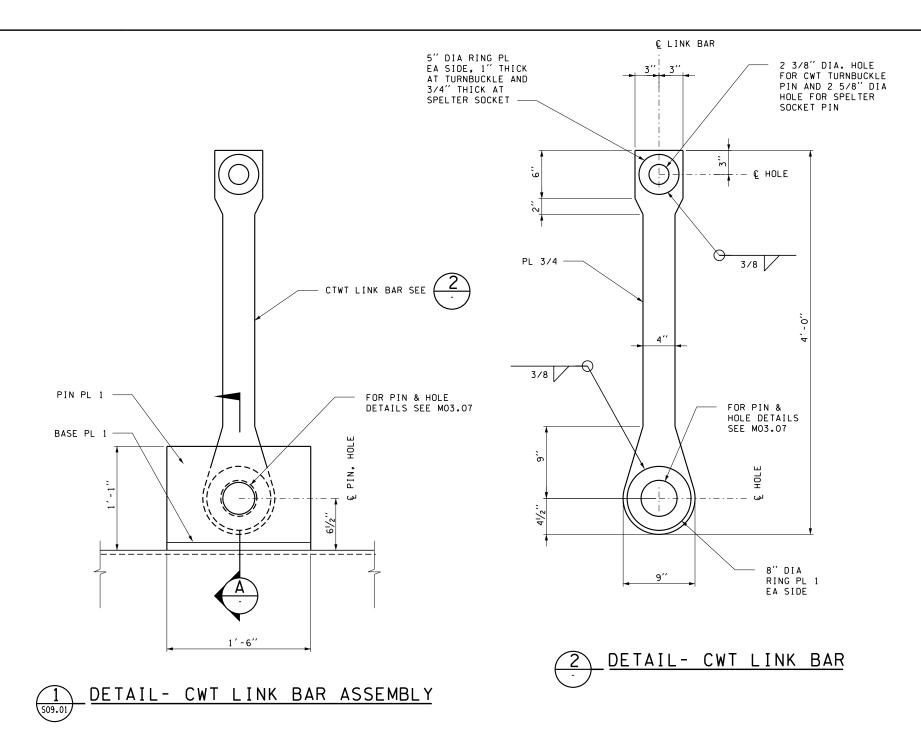
2 DETAIL- HOIST LINK BAR

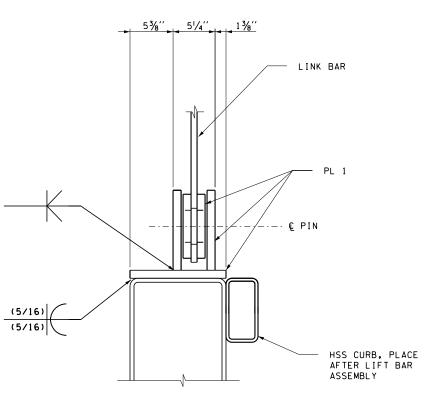
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DGN ENGR MNGR:	,					17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





SR305	509.11
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	71
	OF
TRANSFER SPAN HOIST LINK BAR	124
TRANSPER SPAN HOLDT ETHIC DAIL	SHEETS





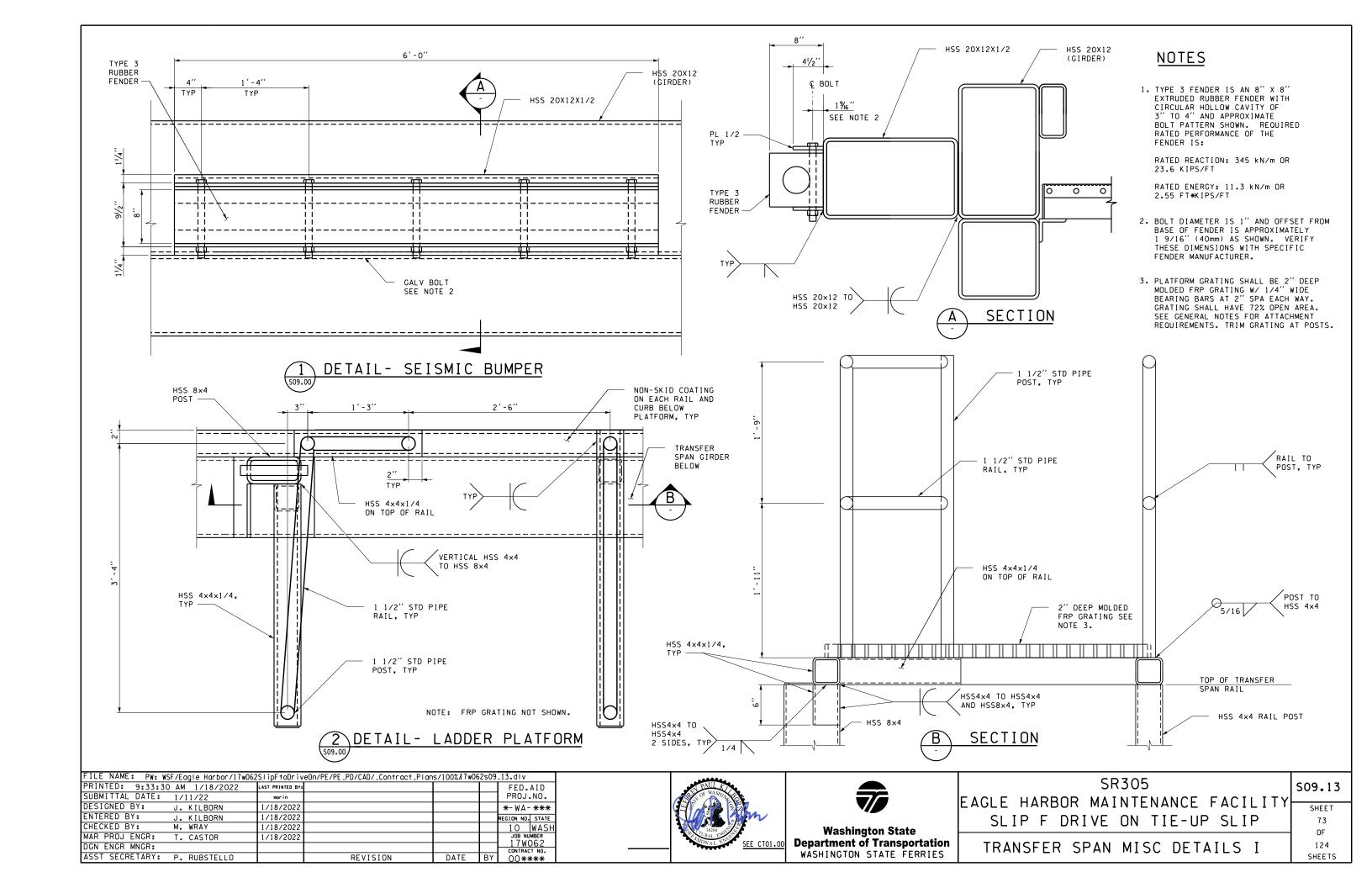
SECTION

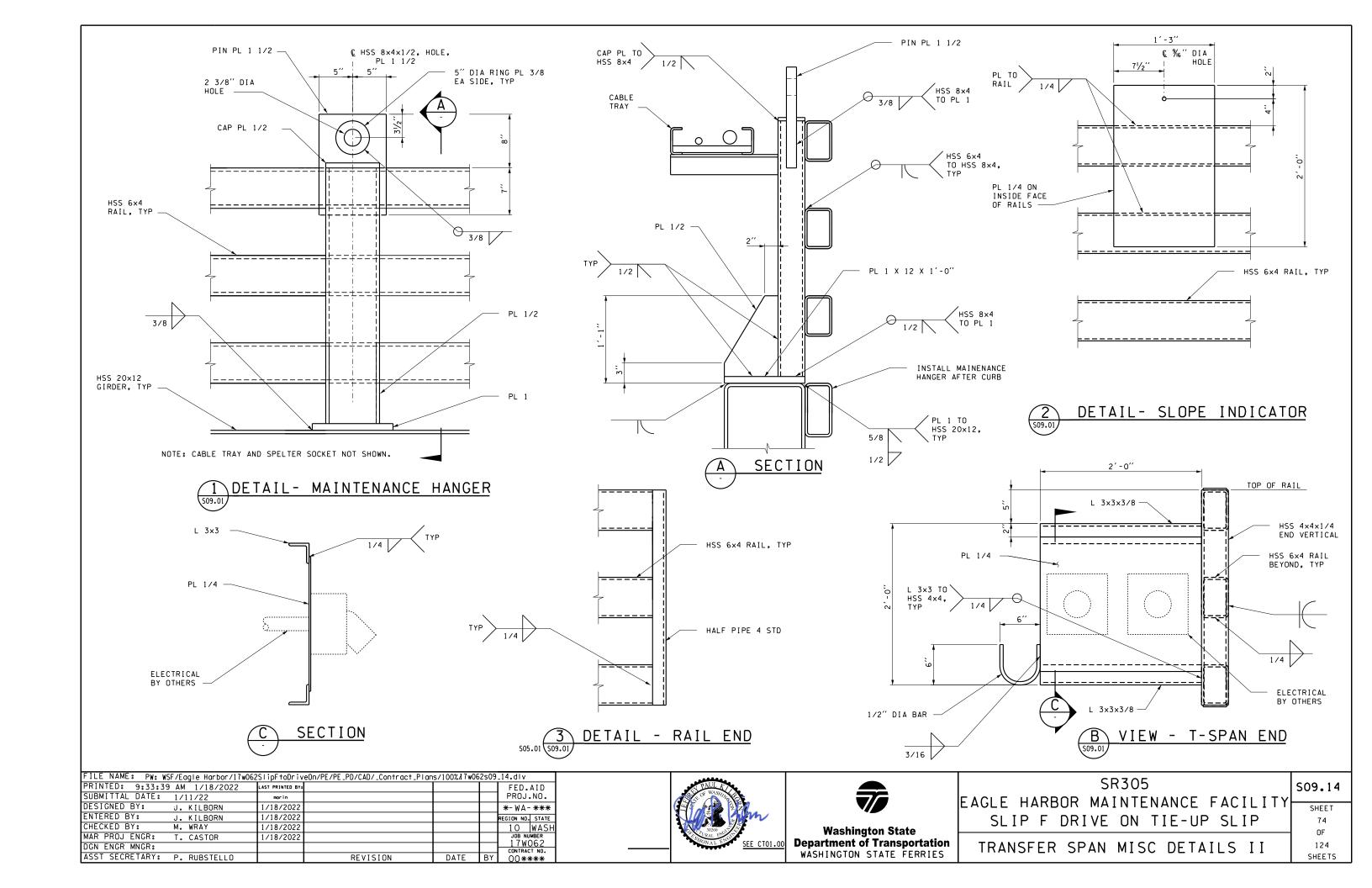
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	M. WRAY	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

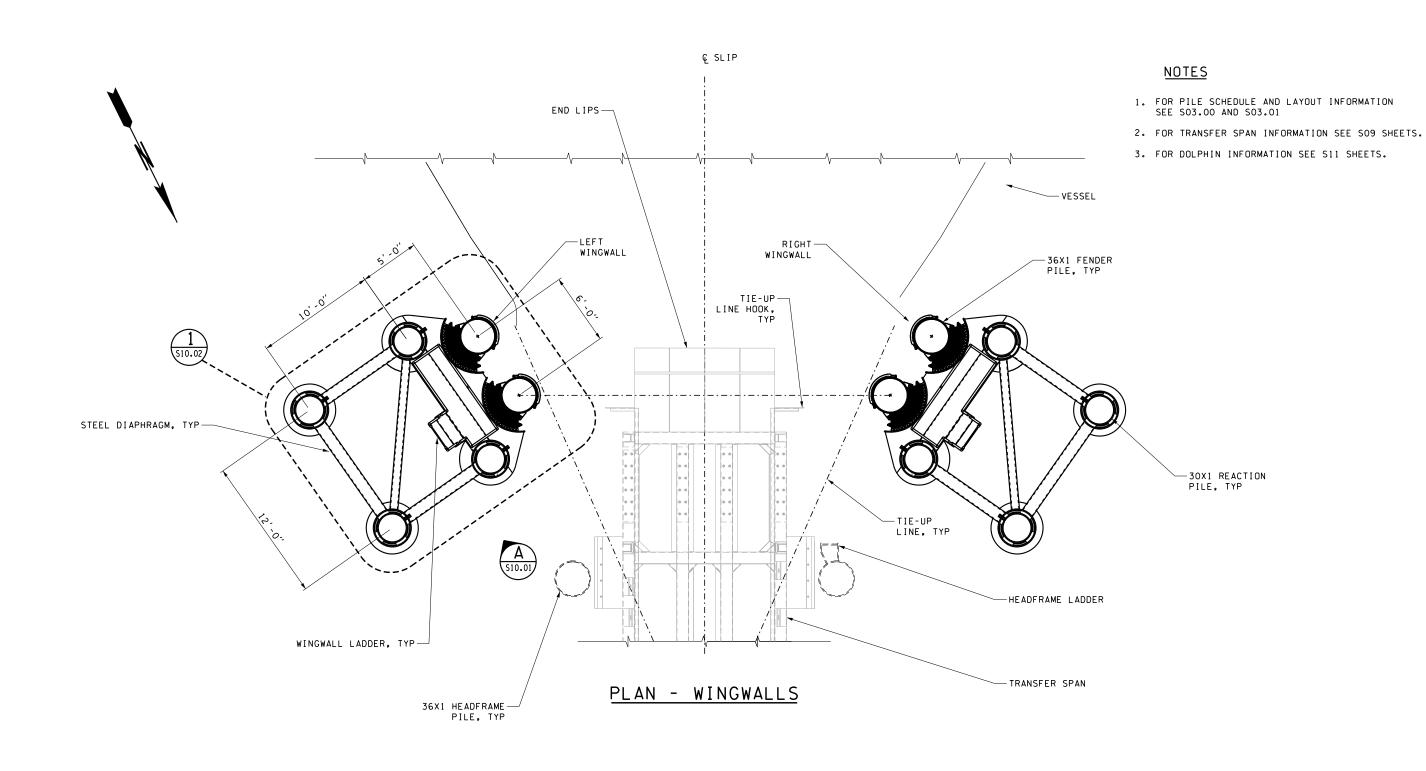




SR305 EAGLE HARBOR MAINTENANCE FACILITY	509.12
SLIP F DRIVE ON TIE-UP SLIP	SHEET 72 OF
TRANSFER SPAN CWT LINK BAR	124 SHEETS







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DGN ENGR MNGR:						17W062		
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****		





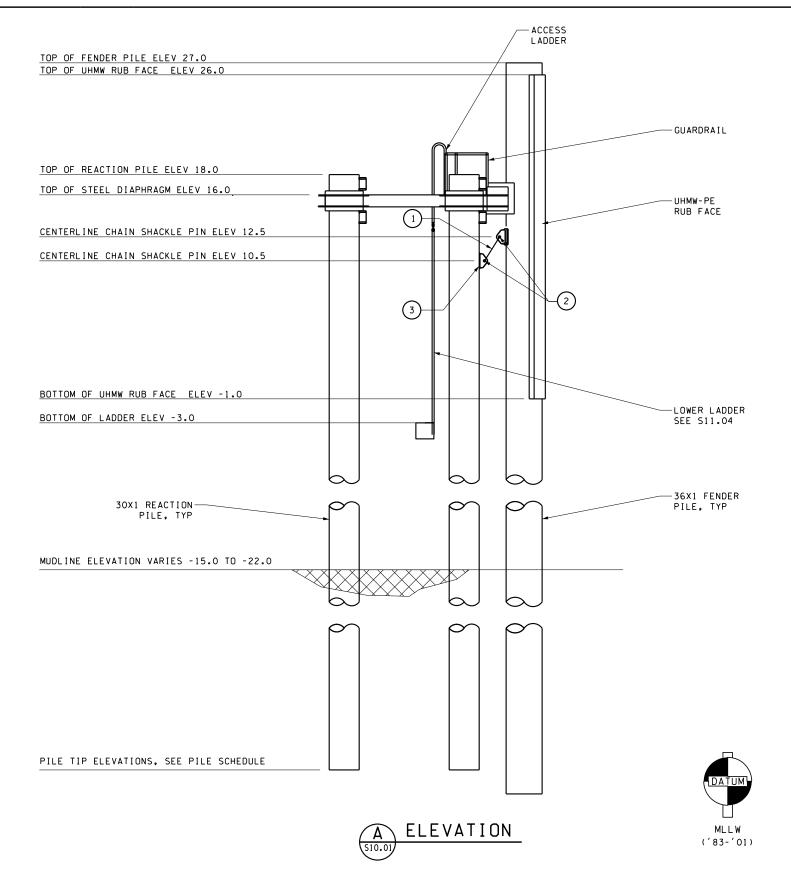
Washington State

Department of Transportation

WASHINGTON STATE FERRIES

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S10.00

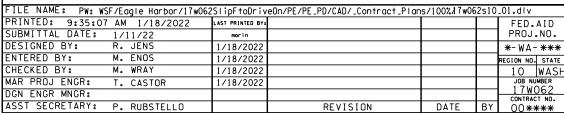


<u>NOTES</u>

- 1. LEFT WINGWALL SHOWN. RIGHT WINGWALL OPPOSITE HAND.
- 2. FOR CHAIN, SHACKLE, ROPE AND HARDWARE REQUIREMENTS SEE SO0.05
- 3. FOR PILE INFORMATION SEE PILE LAYOUT AND SCHEDULE ON SO3 SHEETS

LEGEND

- (1) 1 1/2" STUD LINK CHAIN, GRADE 2
- 2 1 3/4" SAFETY BOLT TYPE CHAIN SHACKLE (CROSBY G-2150 OR EQUAL)
- 3) WELDED STEEL PADEYE, SEE SHEET S11.06







SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
WINGWALL ELEVATION

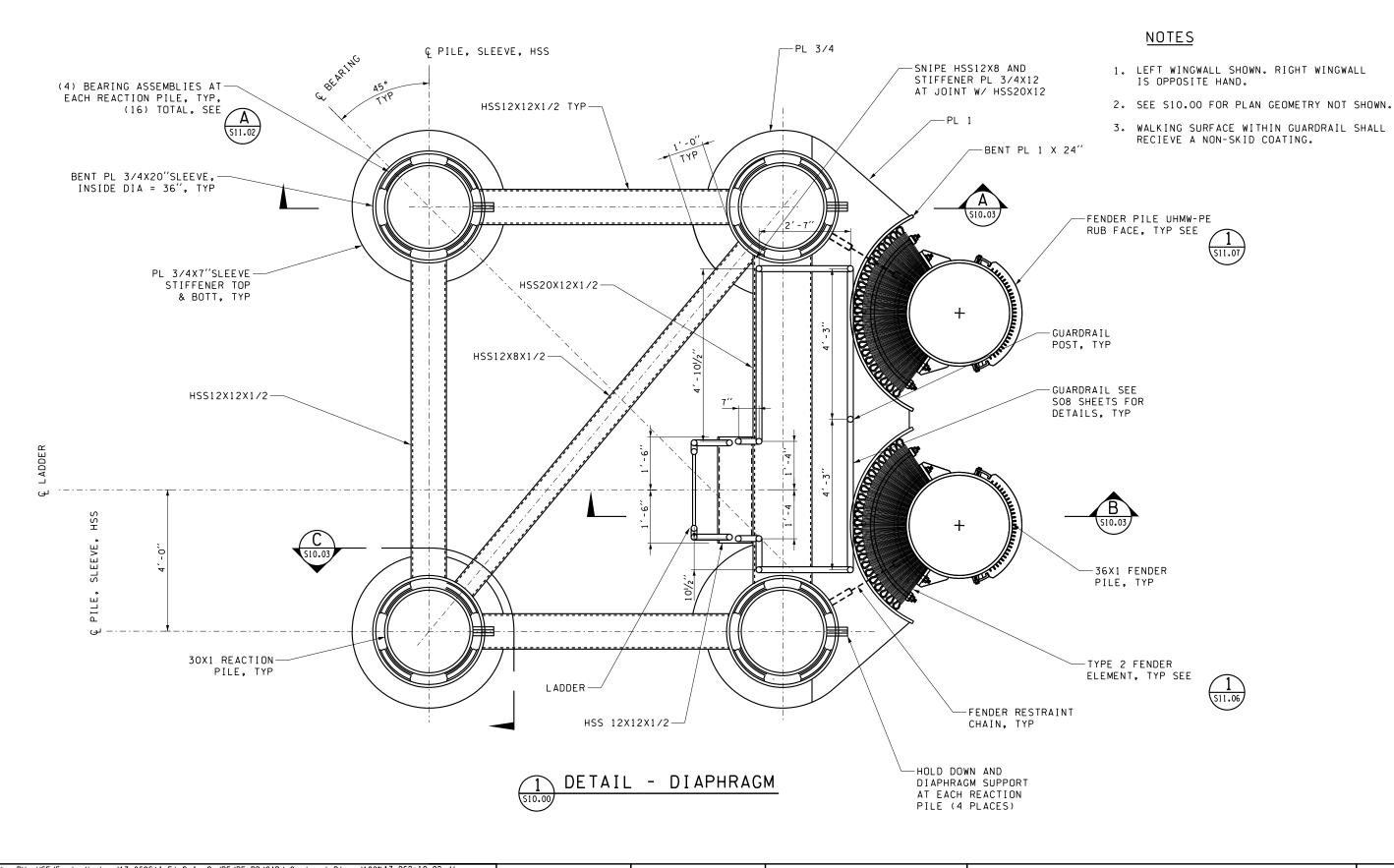
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SHEET

76

OF

124



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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE
CHECKED BY:	M. WRAY	1/18/2022				10 WASH
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





Washington State

Department of Transportation

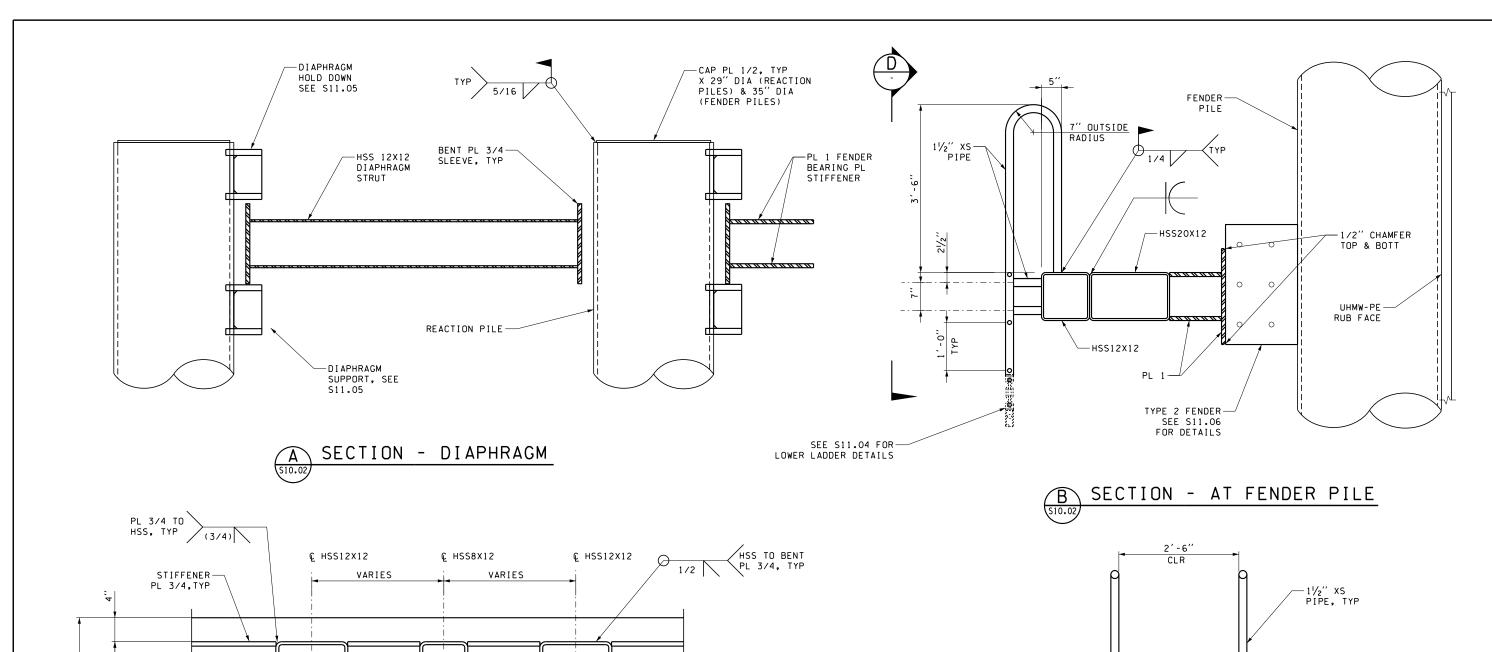
WASHINGTON STATE FERRIES

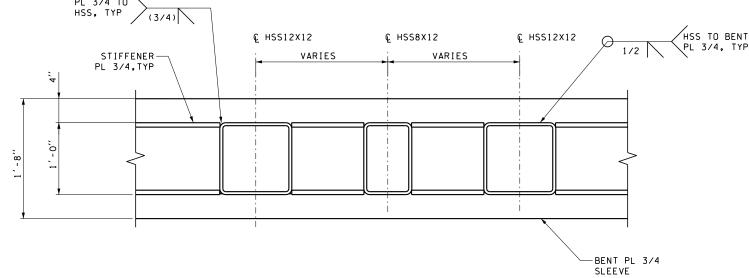
SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

WINGWALL DIAPHRAGM PLAN

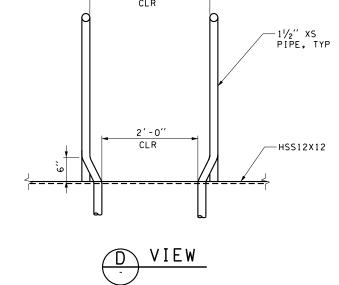
SHEET 77 OF 124 SHEETS

S10.02





SECTION - SLEEVE

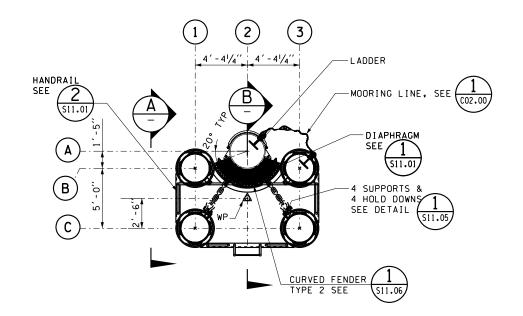


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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE		
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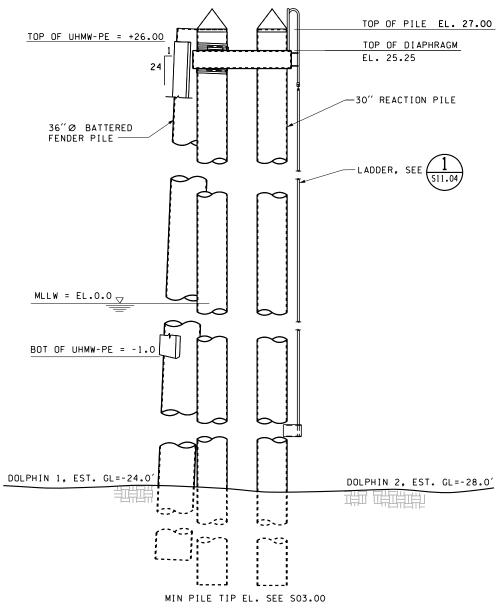


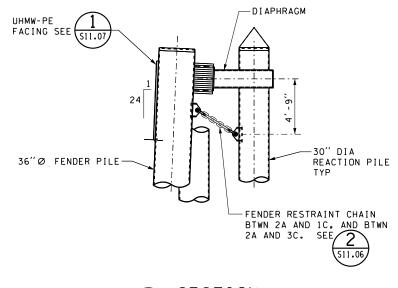


SR305 EAGLE HARBOR MAINTENANCE FACILITY			
EAGLE HARDOR MAINTENANCE FACILITY	SHEET		
SLIP F DRIVE ON TIE-UP SLIP	78		
	OF		
WINGWALL SECTIONS	124 SHEETS		









B SECTION

- HANDRAIL AND LADDER
NOT SHOWN





ELEVATION

MOORING LINE, HOLD DOWNS, AND SUPPORTS NOT SHOWN FOR CLARITY

shington St

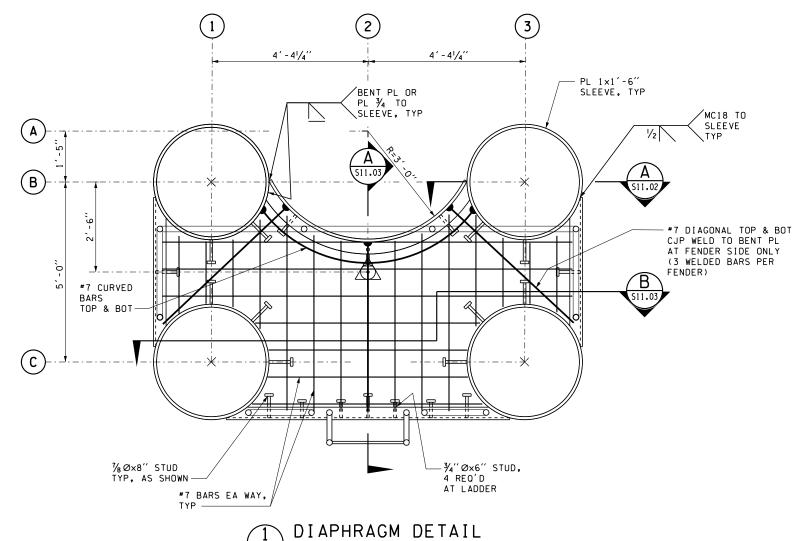
Washington State

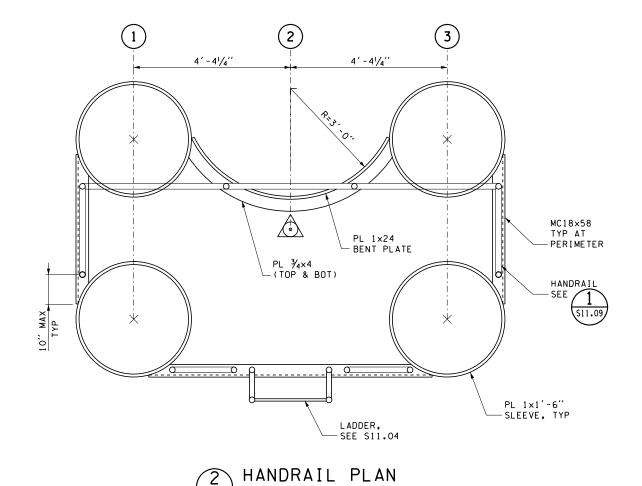
Department of Transportation
WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
DOLPHIN PLAN, ELEVATION
AND SECTION

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II	SHEET	
	79	
	OF	
	124	
	SHEETS	

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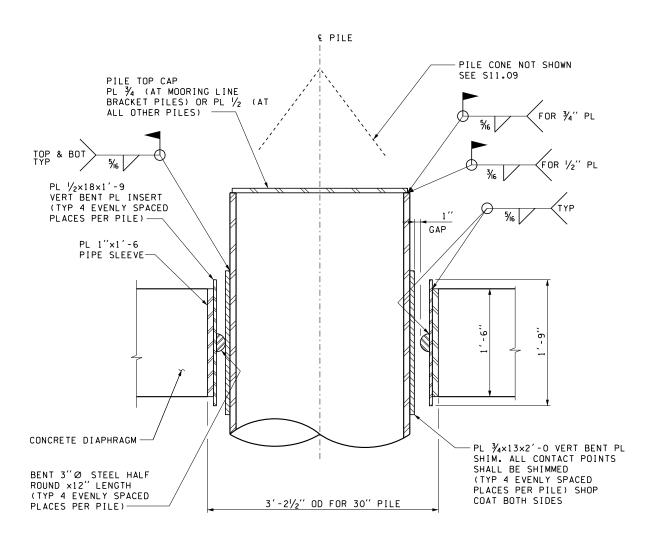
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DGN ENGR MNGR:						17W06		
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00***		





SR305 EAGLE HARBOR MAINTENANCE FACILITY	S11.01
SLIP F DRIVE ON TIE-UP SLIP	SHEET 80 OF
DOLPHIN DIAPHRAGM AND HANDRAIL	124 SHEETS





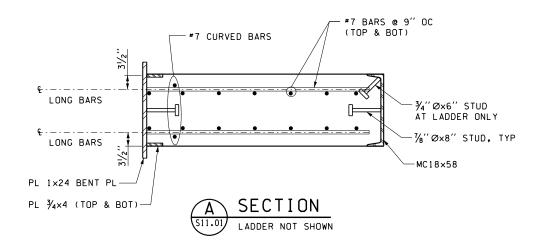
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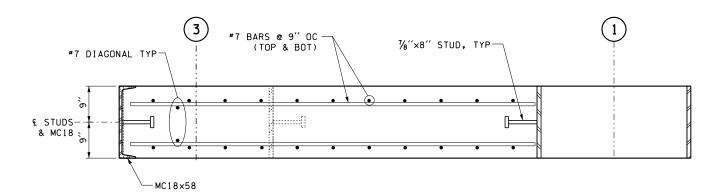




SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP DOLPHIN SLEEVE SECTION

S11.02 SHEET 81 OF





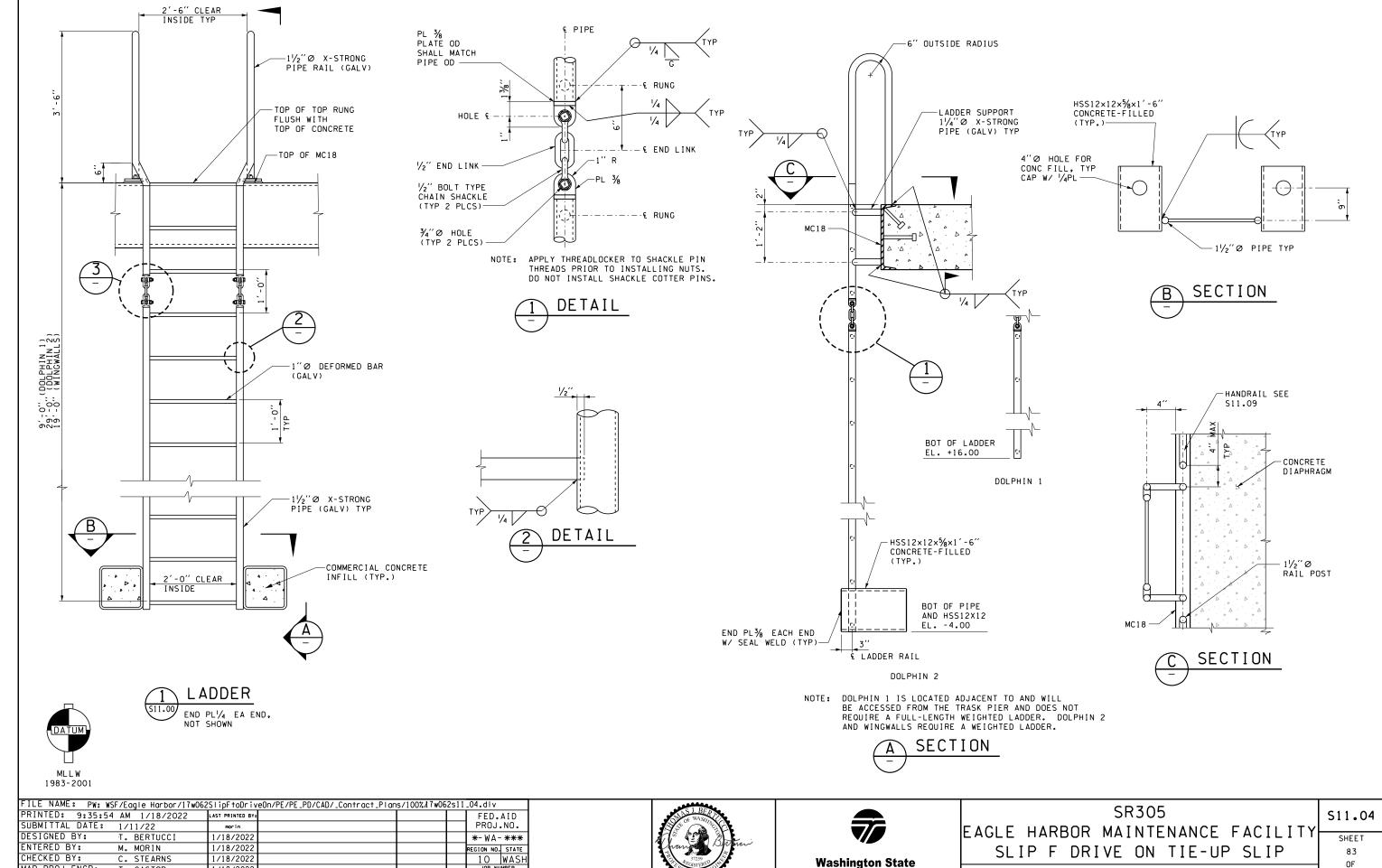


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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





	SR305 EAGLE HARBOR MAINTENANCE FACILITY				
	EAGLE HARDUR MAINTENANCE FACILITY	SHEET			
	SLIP F DRIVE ON TIE-UP SLIP	82			
		OF			
	DOLPHIN DIAPHRAGM SECTIONS	124			
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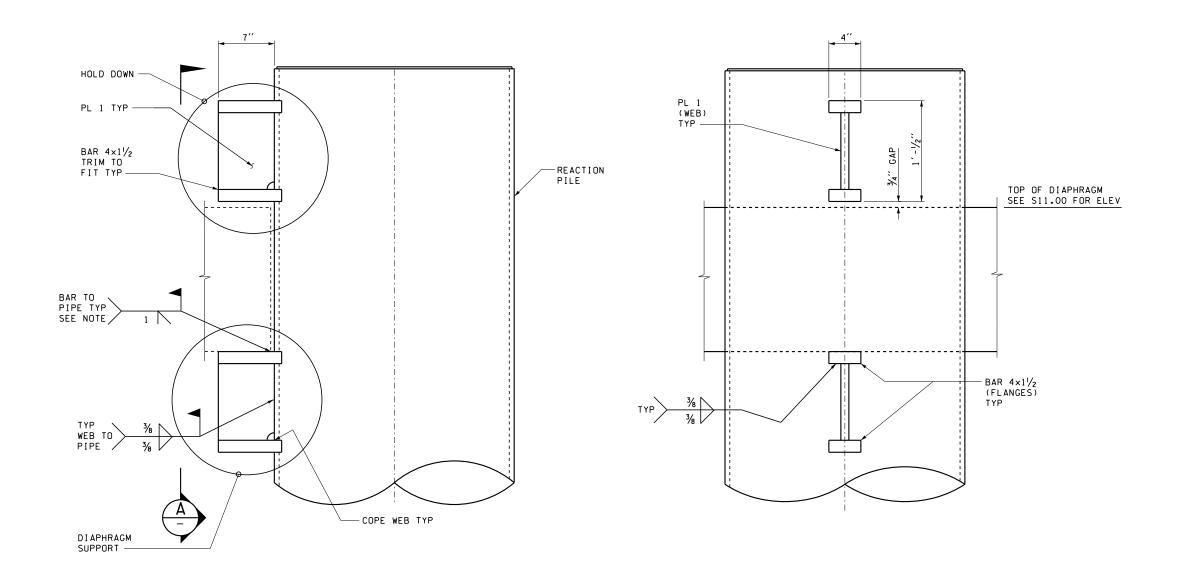
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DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****



Washington State Department of Transportation WASHINGTON STATE FERRIES

SR305	
EAGLE HARBOR MAINTENANCE FACILITY	/ -
SLIP F DRIVE ON TIE-UP SLIP	
LADDER SECTIONS AND DETAILS	

124



DETAIL - DIAPHRAGM HOLD DOWN & SUPPORT



	SF/Eagle Harbor/17w062	SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	s/100%/17w06	2s11	_05.dlv
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

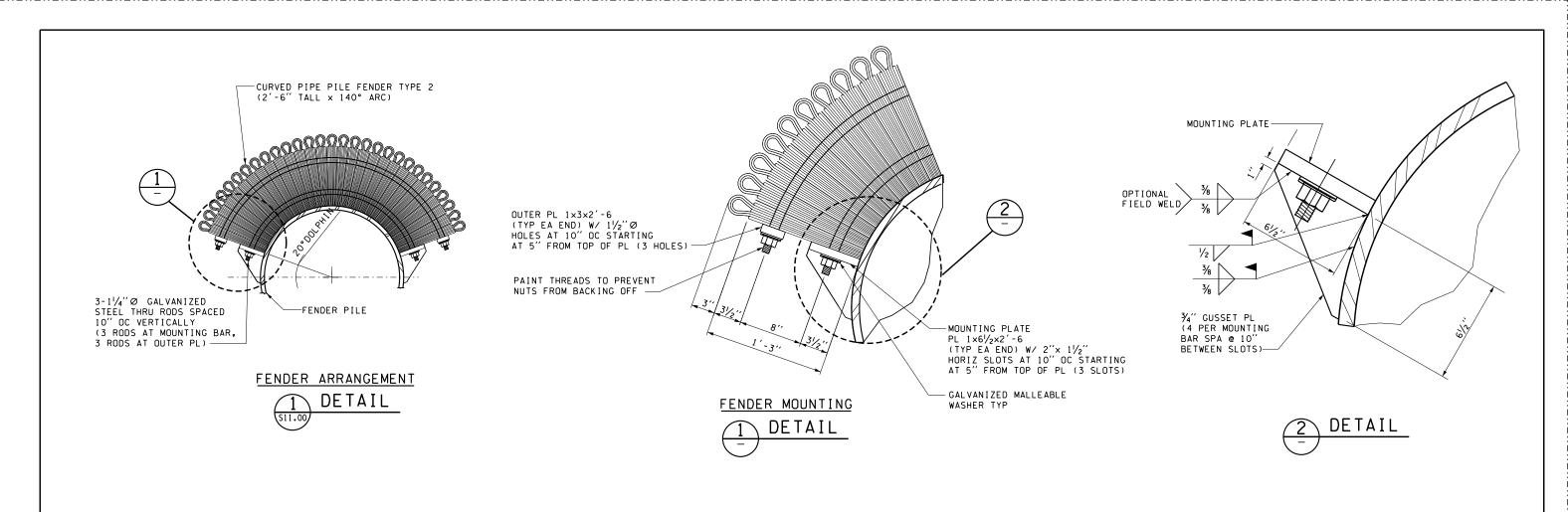


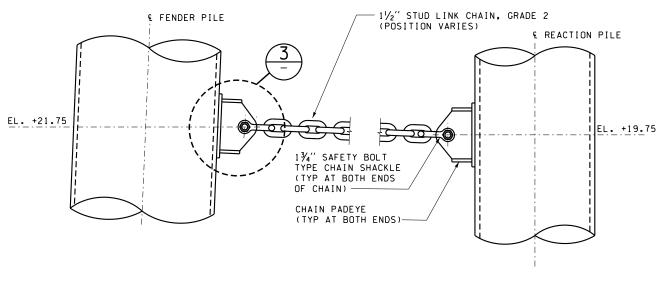


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	S11.05
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	84
DIAPHRAGM HOLD DOWN AND SUPPORT	0F 124

OF 124 SHEETS





PL 3/4 TOP FLANGE

PL 1

R=3"

MATCH HOLE DIAMETER W/
CHAIN SHACKLE REQUIREMENTS

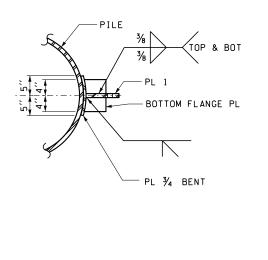
PL 3/4 BENT PL

PL 3/4 BOTTOM FLANGE

3/8

3/8

TOP & BOT



SECTION



2

NOTE: INSTALL CHAIN ASSEMBLY ADEQUATELY TAUT TO PROVIDE FOR 1" COMPRESSION OF SOFT LOOP TYPE FENDER.

FILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%/7w062sl1_06.dlv PRINTED: 9:36:07 AM 1/18/2022 LAST PRINTED BY FED.AID SUBMITTAL DATE: 1/11/22 PROJ.NO. morin DESIGNED BY: 1/18/202 T. BERTUCC *-WA-** ENTERED BY: M. MORIN 1/18/202 EGION NO. STATE CHECKED BY: C. STEARNS 10 WASH JOB NUMBER 17WO62 1/18/2022 MAR PROJ ENGR: T. CASTOR 1/18/2022 DGN ENGR MNGR: CONTRACT NO. ASST SECRETARY: P. RUBSTELLO REVISION DATE

DETAIL





Washington State

Department of Transportation

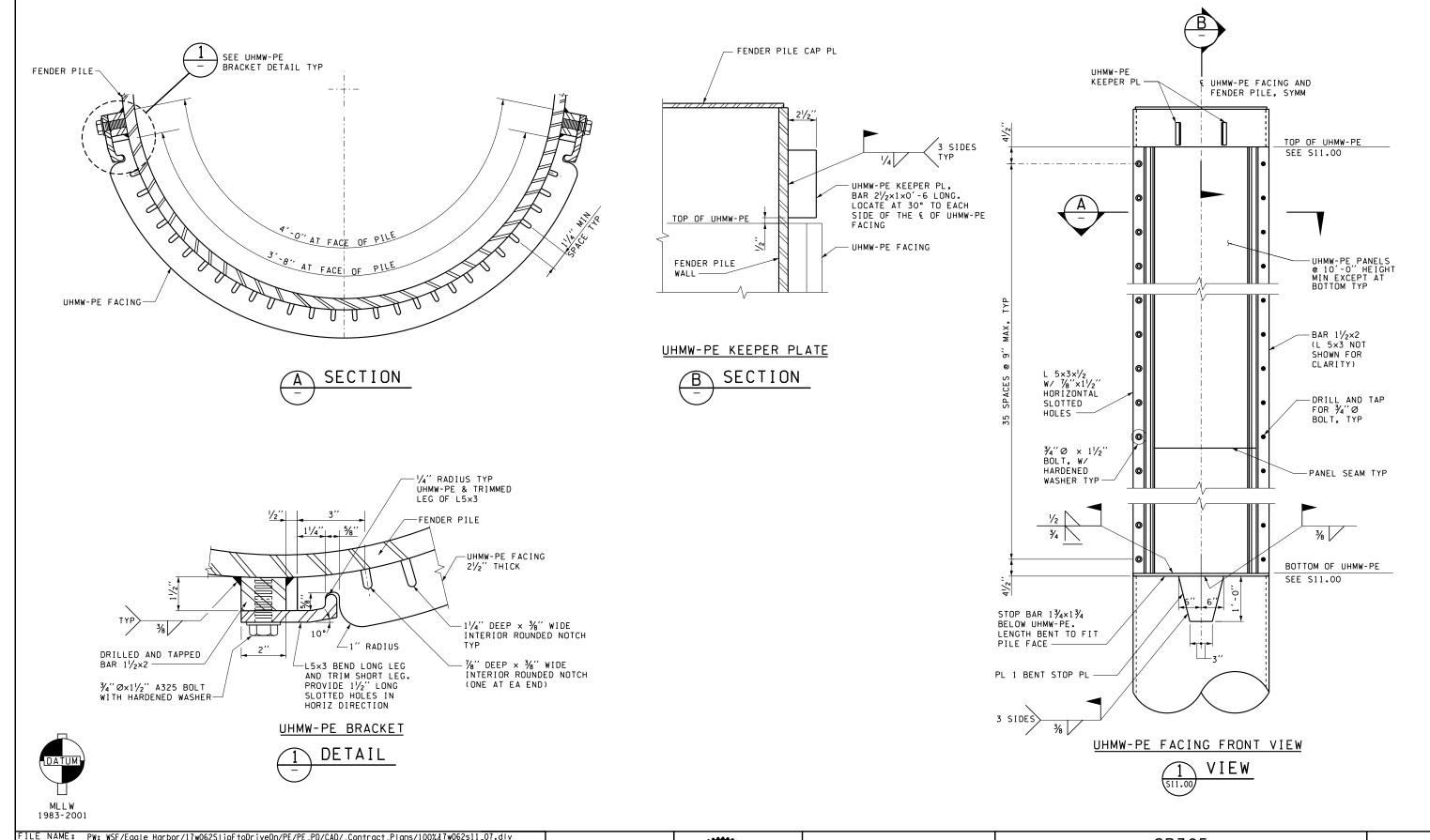
WASHINGTON STATE FERRIES

SR305
TAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP

CURVED FENDER AND FENDER
RESTRAINT CHAIN DETAILS

\$11.06

85 OF 124 SHEETS

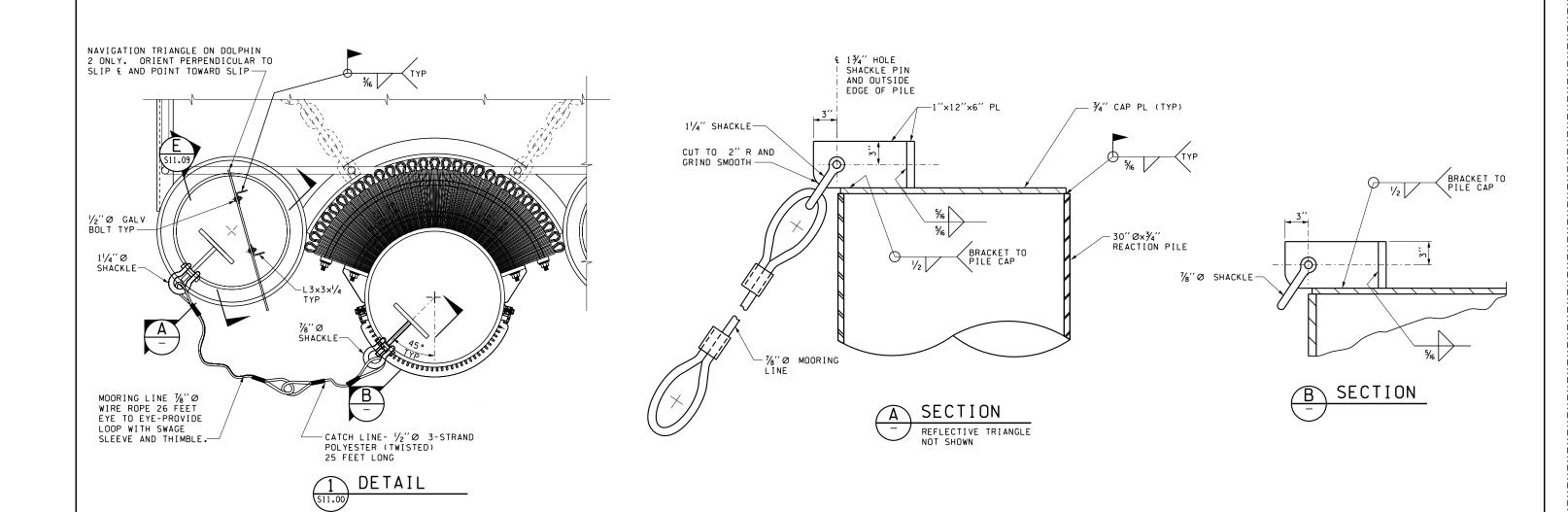


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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	ΒY	00****
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SR305			
EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP	86		
UHMW-PE FACING DETAILS	0F 124		



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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE
CHECKED BY:	C. STEARNS	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****



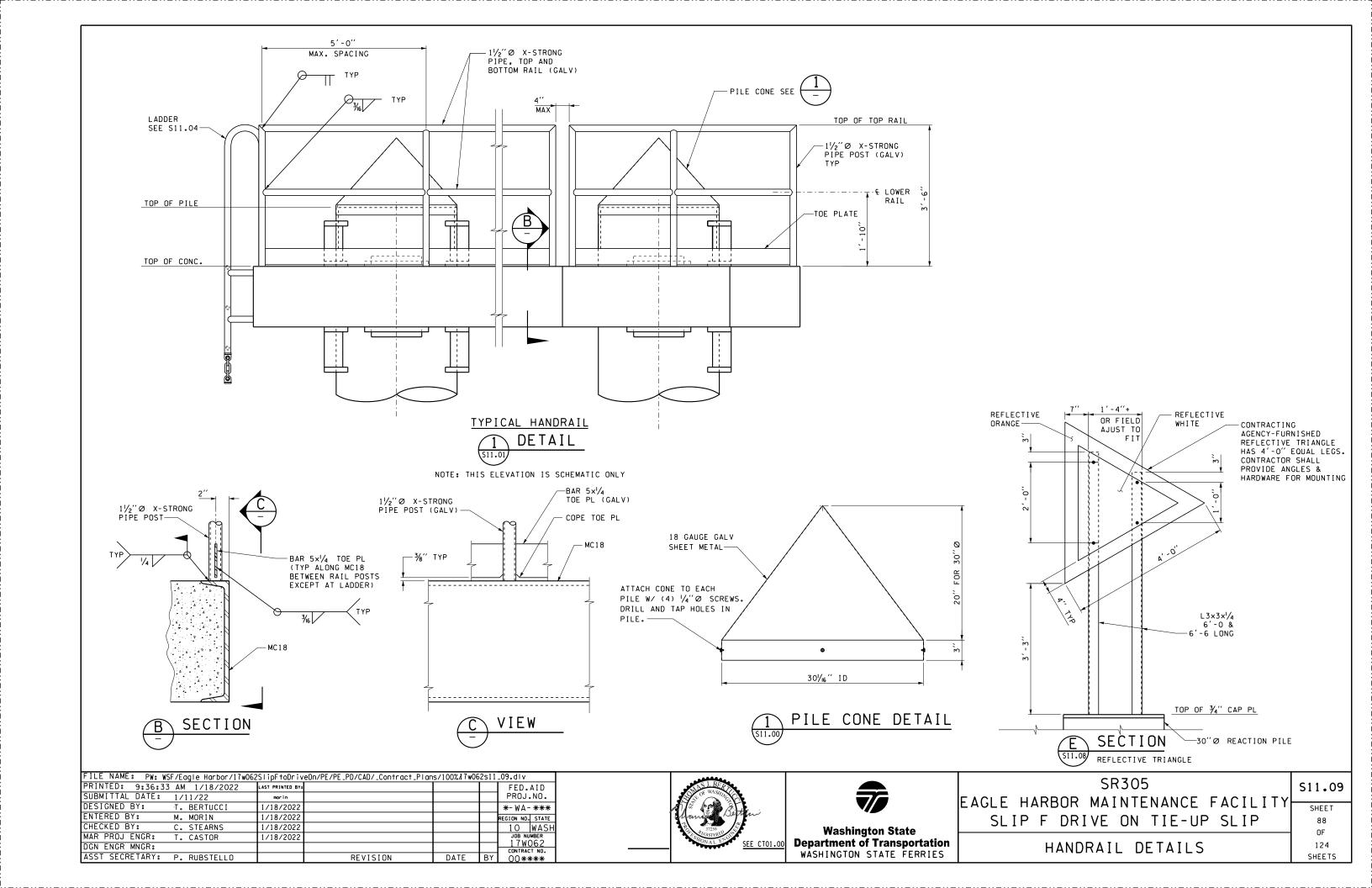


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SR305	
EAGLE HARBOR MAINTENANCE FACILITY	1
SLIP F DRIVE ON TIE-UP SLIP	
MOORING LINE DETAILS	

\$11.08 SHEET 87

OF



GENERAL MECHANICAL NOTES:

- THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THESE CONTRACT DRAWINGS, THE CONTRACT SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS AS DEFINED WITHIN THE SPECIFICATIONS.
- 2. THE DESIGN INTENT IS FOR THE CONTRACTOR TO USE ACCEPTED INDUSTRY METHODS TO ACHIEVE ALIGNMENT TOLERANCE FOR PROPER OPERATION OF THE OPERATING SYSTEM. ALL RIGGING, SCAFFOLDING, MEASUREMENTS, ALIGNMENT AND INSTALLATION TOOLS REQUIRED FOR THE JOB ARE CONSIDERED PART OF THE WORK AND THE PAY ITEMS. THE FINAL MACHINERY INSTALLATION SHALL RESULT IN PROPER FUNCTION THROUGHOUT THE COMPLETE RANGE OF OPERATION.
- 3. THE CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED SHOP DRAWINGS AND ASSEMBLY DRAWINGS BASED ON THE CONTRACT DOCUMENTS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETAIL, COORDINATE AND VERIFY THE RELATIONSHIP AND ASSEMBLY OF ALL PARTS FOR A COMPLETE WORKING SYSTEM. ALL REQUIRED MACHINING, SPECIAL SHIMMING, LUBRICATION, PAINTING, TESTING, AND ASSEMBLY SHALL BE CONSIDERED PART OF THE WORK.
- 4. WELDING SHALL BE IN ACCORDANCE WITH AWS BRIDGE WELDING CODE AASHTO/AWS-D1.5M/D1.5:2020.
- 5. WHERE ADDITIONAL SHIMS ARE REQUIRED, PROVIDE SHIMS FOR LEVELING AND ALIGNING ALL MACHINERY COMPONENTS. PROVIDE SHIMS OF \(\frac{1}{2} \)" NOMINAL THICKNESS, UNLESS OTHERWISE SPECIFIED, WITH VARIATIONS AS DESCRIBED IN THE SPECIFICATIONS.
- 6. DIMENSIONAL MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED) ARE TO THE +/- 0.005".
- 7. UNLESS OTHERWISE SPECIFIED, DIMENSIONS BETWEEN MACHINED SURFACES SHALL HAVE A TOLERANCE OF 0.010-INCH.
- 8. BLEND SMOOTH ALL TRANSITIONS OF SURFACES OF MACHINERY PARTS. MACHINE ALL SURFACES OF FORGINGS TO THE DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS. MACHINE ALL MATING SURFACES OF MACHINERY PARTS AND SUPPORTS.
- 9. THE EDGES AND CORNERS OF ALL MACHINERY PARTS SHALL BE DETAILED AND MACHINED WITH SUITABLE FILLETS AND CHAMFERS. THE MINIMUM RADIUS OR CHAMFER SHALL BE 1/8" IF THE PART THICKNESS IS LESS THAN 1" AND 1/4" IF THE PART THICKNESS IS EQUAL TO OR GREATER THAN 1", UNLESS OTHERWISE NOTED. IN THE CASE OF MATING PARTS, ALLOWANCE SHALL BE MADE FOR THE PROPER FIT AND ASSEMBLY. SHOW SUCH DETAILS ON SHOP DRAWINGS.

10. MACHINERY DIMENSIONS SHOWN ON THE DRAWINGS ARE DIMENSIONS AFTER MACHINING. UNLESS OTHERWISE INDICATED OR REQUIRED FOR THE PROPER ASSEMBLY OF PART, DIMENSIONAL TOLERANCES FOR MACHINERY IN GENERAL SHALL BE AS FOLLOWS:

SURFACES STRAIGHTNESS:

FLATNESS:

D 0.010

PARALLELISM: // 0.005

ANGULARITY: \(\sum 0.02 -\)

POSITION: (FEATURES WITHIN A COMPONENT)

CONCENTRICITY: O 0.005 -

CIRCULAR RUNOUT:

Ø 0.005 |

11. FITS AND FINISHES FOR MACHINERY SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

SURFACE FIT FINISH (MICROINCHES)

MACHINERY BASE ON STEEL - 250
SHAFT JOURNALS RC6 8
JOURNAL BUSHINGS RC6 16

WIRE ROPE HOIST

COUNTERWEIGHT SHEAVE-

(SEE SHEET MO3.10)

(2 LOCATIONS)

(SEE SHEET MO3.01)

ELECTRIC WIRE ROPE HOIST-

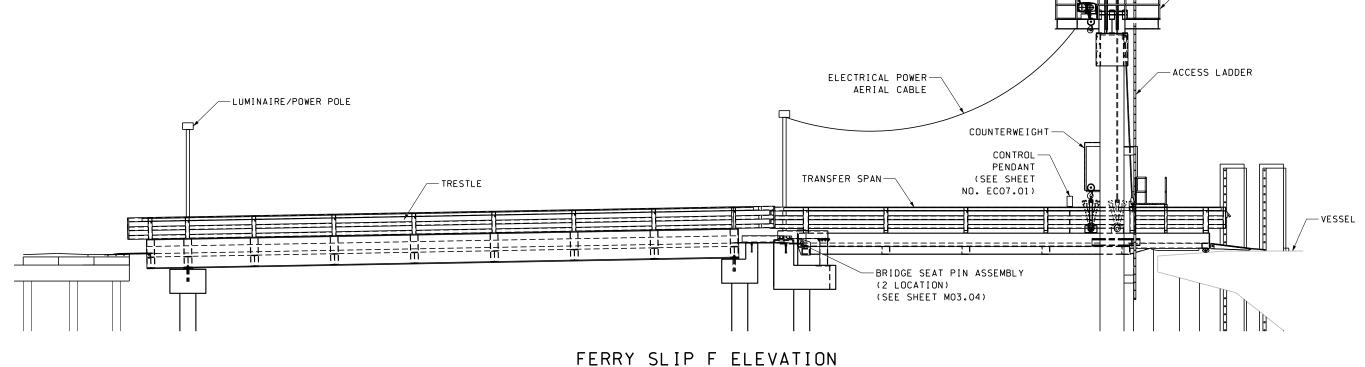
ASSEMBLY

1. THE HOIST ASSEMBLY IS NOT DESIGNED FOR NOR INTENDED TO LIFT PEOPLE ON THE SPAN. PERSONNEL SHALL REMAIN OFF THE LIFT DURING OPERATION. REFER TO THE SPECIFICATIONS FOR HOIST OPERATION REQUIREMENTS.

LADDER FALL

-HEAD FRAME

PROTECTION RIGGING



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ENTERED BY:	R. PEREZ	1/18/2022				REGION NO. S	TATE
CHECKED BY:	D. NYARKO	1/18/2022				10 W	ASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBE	
DGN ENGR MNGR:						17W06	
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00***	



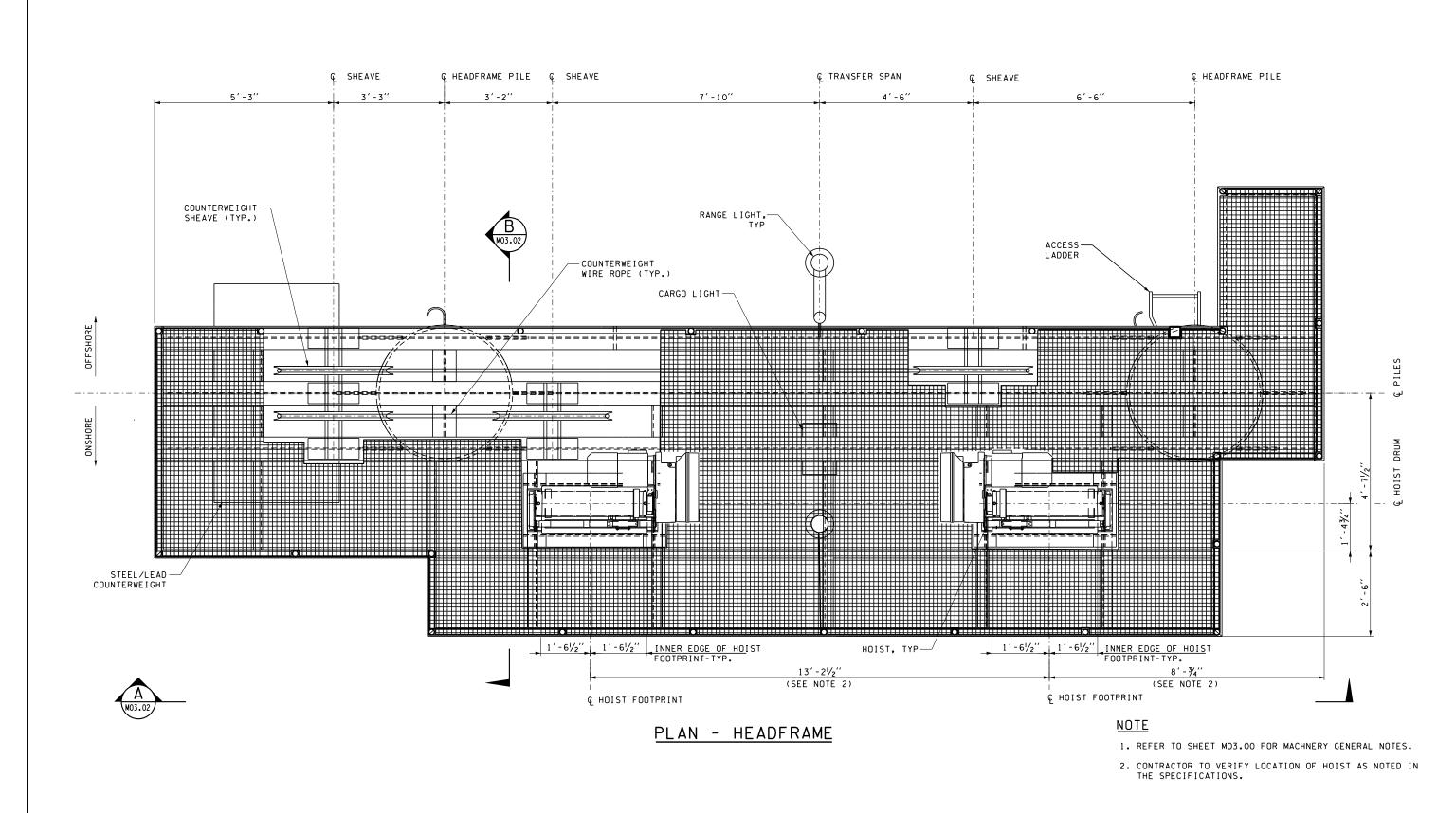


SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
MECHANICAL NOTES AND ELEVATION

MO3.00 SHEET 89

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124



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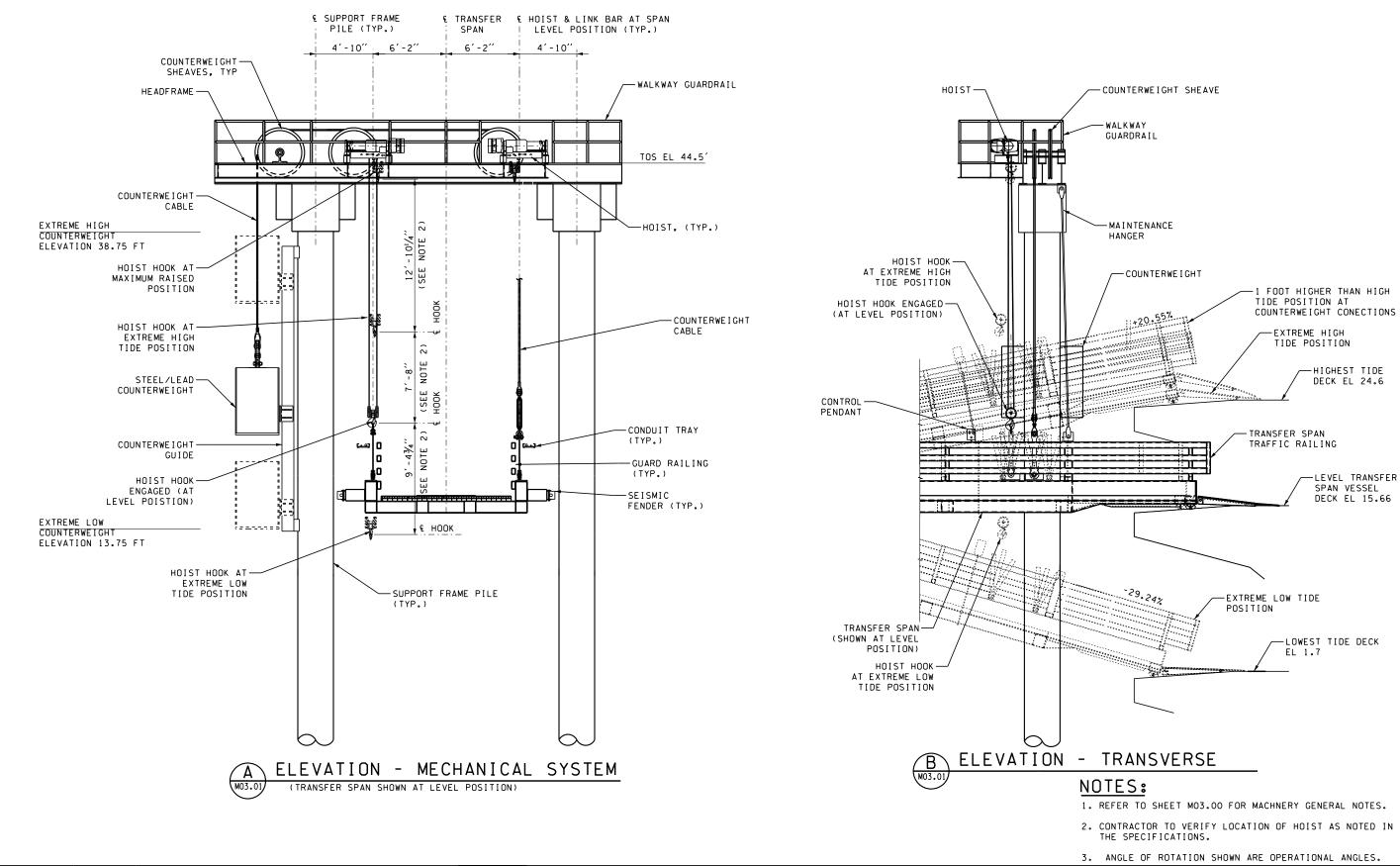
SR305
EAGLE HARBOR MAINTENANCE FACILITYSLIP F DRIVE ON TIE-UP SLIP
HOIST SYSTEM PLAN

M03.01

SHEET

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ENTERED BY:	R. PEREZ	1/18/2022				REGION NO. STATE
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MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





Washington State

Department of Transportation

WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
HOIST SYSTEM ELEVATIONS

SHEET 91 OF 124 SHEETS

M03.02

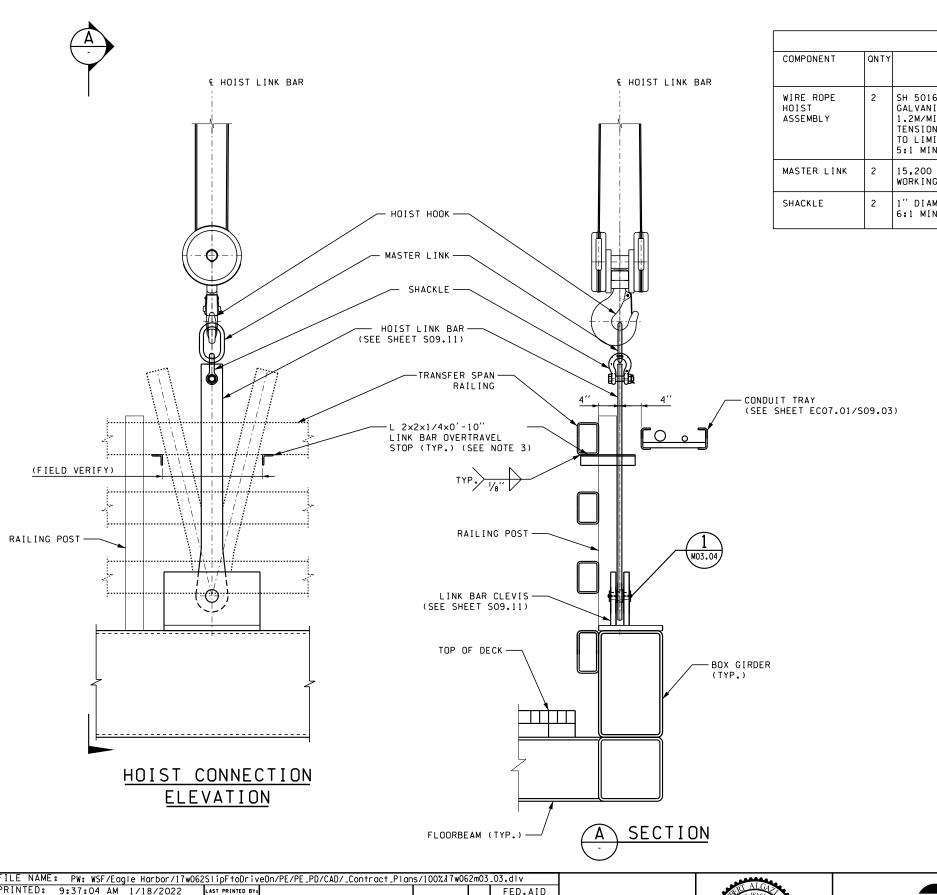


TABLE OF HOIST COMPONENTS							
COMPONENT	QNTY	DESCRIPTION	MATERIAL	MANUFACTURER OR APPROVED EQUAL			
WIRE ROPE HOIST ASSEMBLY	2	SH 5016-25 4/1, 6300 KG ELECTRIC WIRE ROPE HOIST, SINGLE GROOVE DRUM, GALVANIZED WIRE ROPE, 10 METER LIFT HEIGHT, LIFT SPEED LIMITED TO 1.2M/MIN, WEATHER PROOF HOUSING WITH IP 66 PROTECTION FOR OUTDOOR USE TENSION LIMIT SWITCH SET AT 1000 LBS AND LOAD SUMMATION DEVICE SET TO LIMIT TOTAL COMBINED LOAD TO 11 KIPS. 5:1 MINIMUM SAFETY FACTOR TO ROPE ULTIMATE STRENGTH AT RATED LOAD.	-	STAHL			
MASTER LINK	2	15,200 LB WORKING LIMIT, 5:1 MINIMUM ULTIMATE SAFETY FACTOR TO WORKING LIMIT	GAL VANIZED STEEL	CROSBY			
SHACKLE	2	1" DIAMETER BOLT TYPE ANCHOR SHACKLE, 8 1/2 METRIC TON WORKING LIMIT. 6:1 MINIMUM ULTIMATE SAFETY FACTOR TO WORKING LIMIT.	GAL VAN I ZED STEEL	CROSBY			

NOTES:

- 1. FOR GENERAL MACHINERY NOTES SEE SHEET MO3.00
- 2. WORK THIS DRAWING WITH SHEET MO3.01 AND MO3.02.
- FIELD LOCATE LINK BAR OVERTRAVEL STOP BASED ON ACTUAL REQUIRED ROTATION ON LINK BAR.
- 4. FIELD ADJUST HOIST TENSION LIMIT AS REQUIRED.

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CHECKED BY:	J.KILBORN	1/18/2022				10	WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NU	
DGN ENGR MNGR:						17W	
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00*	





Washington State

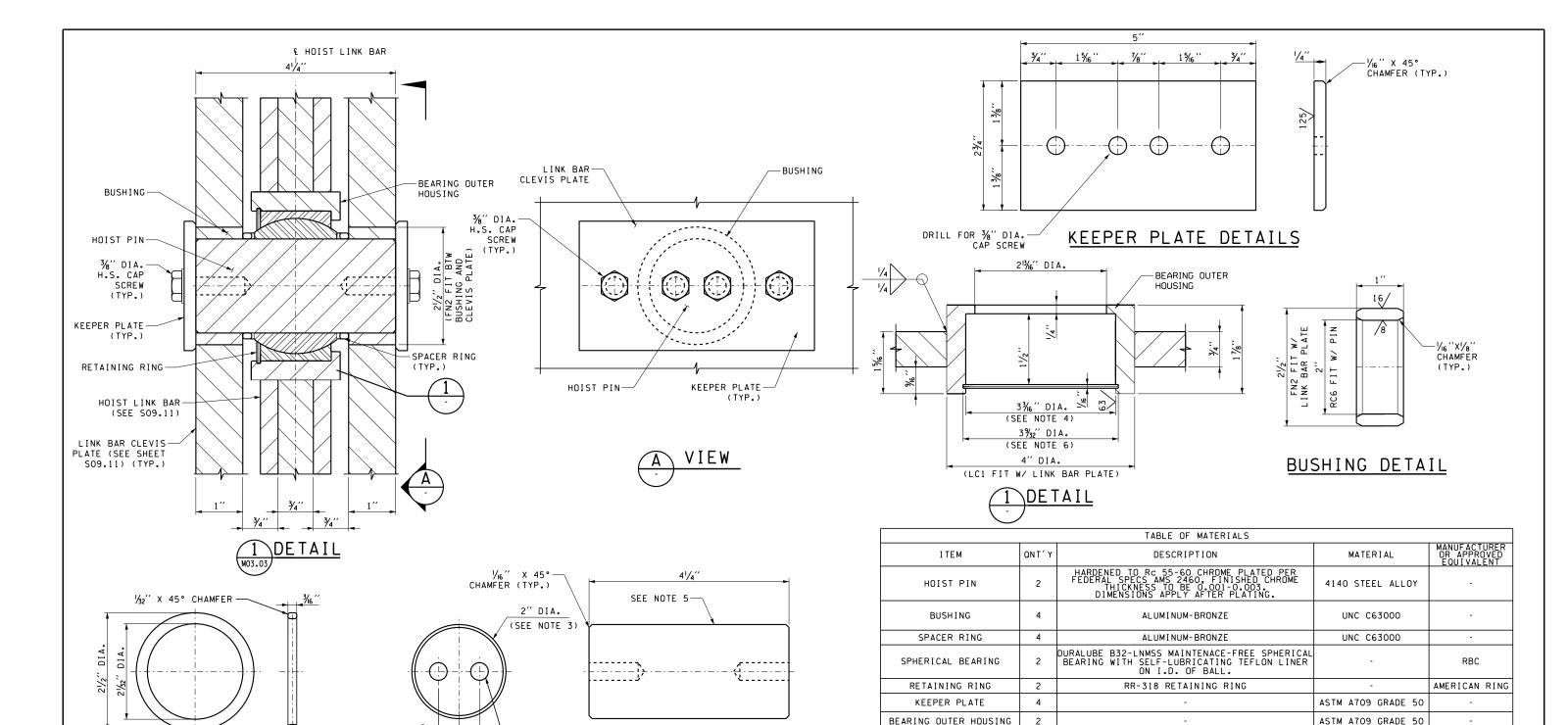
Department of Transportation

WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
HOIST CONNECTION DETAIL

MO3.03

SHEET
92
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124
SHEETS



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- 1. WORK THIS DRAWING WITH SHEET MO3.03.
- 2. ALL WELDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3. FIT BETWEEN LINK BAR PIN AND BEARING INNER DIAMETER SHALL BE AS RECOMMENDED BY SPHERICAL BEARING MANUFACTURER.
- 4. FIT BETWEEN BEARING OUTER DIAMETER AND BEARING OUTER HOUSING SHALL BE AS RECOMMENDED BY THE SPHERICAL BEARING MANUFACTURER.
- 5. HOIST LINK BAR PIN FINISH TO MEET BEARING MANUFACTURER'S RECOMMENDED FINISH.
- 6. GROOVE IN BEARING OUTER HOUSING FOR RETAINING RING SHALL MEET MANUFACTURER RECOMMENDED SIZE.

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DESIGNED BY:	R. ALGAZI	1/18/2022				*-WA-***
ENTERED BY:	R. PEREZ	1/18/2022				REGION NO. STATE
CHECKED BY:	J. KILBORN	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062 CONTRACT NO.
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****

SPACER RING DETAILS

-DRILL AND TAP 1"
DEEP FOR 3%" DIA.
H.S. CAP SCREW
(TYP.)

HOIST PIN DETAILS





Washington State
Department of Transportation
WASHINGTON STATE FERRIES

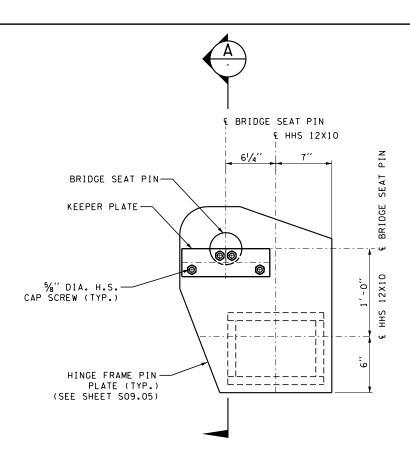
SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
HOIST PIN ASSEMBLY DETAILS

MO3.04

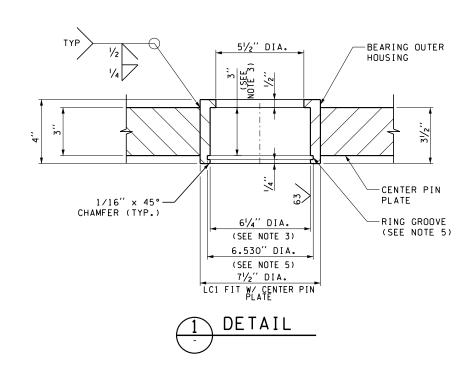
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OF

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BRIDGE SEAT PIN ASSEMBLY



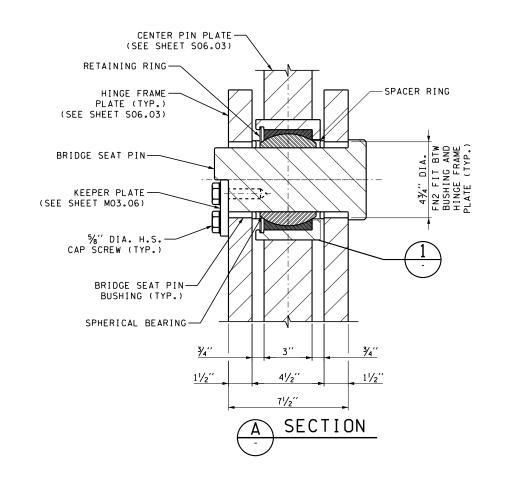


		TABLE OF MATERIALS		
ITEM	QNT'Y	DESCRIPTION	MATERIAL	MANUFACTURER OR APPROVED EQUIVALENT
BRIDGE SEAT PIN	2	HARDENED TO RC 55-60 CHROME PLATED PER FEDERAL SPECS AMS 2460, FINISHED CHROME THICKNESS TO BE 0.001-0.003. DIMENSIONS APPLY AFTER PLATING.	4140 STEEL ALLOY	-
BRIDGE SEAT PIN BUSHING	4	ALUMINUM-BRONZE	UNC 63000	-
SPACER RING	4	ALUMI NUM-BRONZE	UNC 63000	-
SPHERICAL BEARING	2	LUBRON SPBZ0400-TF SPHERICAL BEARING	-	RBC
RETAINING RING	2	RRT-625 RETAINING RING	-	AMERICAN RING
KEEPER PLATE	2	-	ASTM A709 GRADE 50	-
BEARING OUTER HOUSING	2		ASTM A709 GRADE 50	-

NOTES:

- 1. WORK THIS DRAWING WITH SHEET MO3.06.
- 2. ALL WELDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3. FIT AND FINISH BETWEEN BEARING OUTER HOUSING AND BEARING OUTER DIAMETER SHALL BE AS RECOMMENDED BY THE BEARING MANUFACTURER.
- 4. BRIDGE SEAT PIN FINISH TO MEET BEARING MANUFACTURER'S RECOMMENDED FINISH.
- 5. GROOVE IN BEARING OUTER HOUSING FOR RETAINING RING SHALL MEET MANUFACTURER RECOMMENDED SIZE.

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CHECKED BY:	J. KILBORN	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





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SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
BRIDGE SEAT PIN ASSEMBLY
DETAILS 1 OF 2

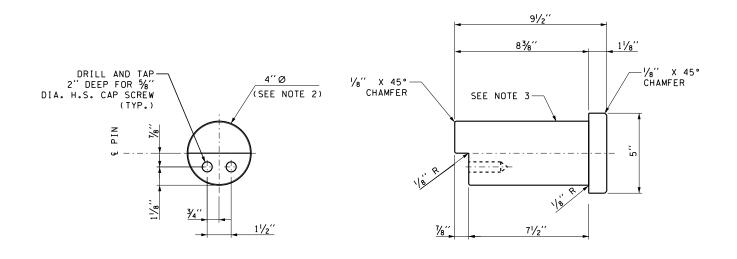
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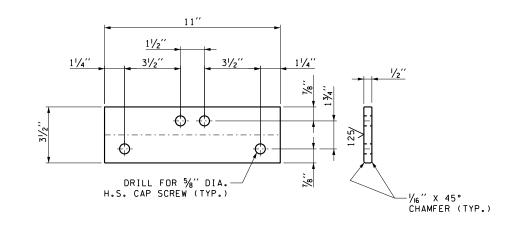
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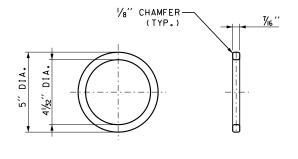
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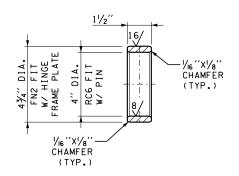




BRIDGE SEAT PIN DETAILS







SPACER RING DETAILS

BUSHING DETAIL

NOTES:

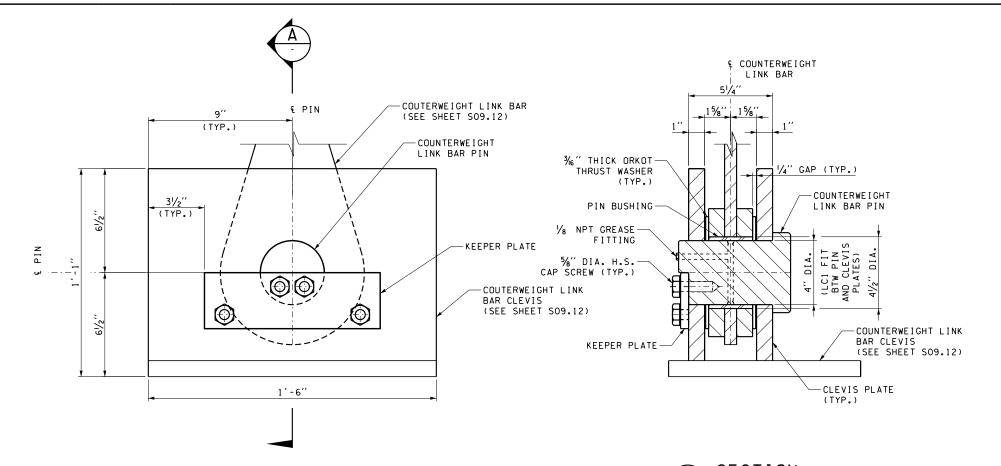
- 1. WORK THIS DRAWING WITH SHEET MO3.05.
- 2. FIT BETWEEN BRIDGE SEAT PIN AND SPHERICAL BEARING INNER DIAMETER SHALL BE AS RECOMMENDED BY SPHERICAL BEARING MANUFACTURER.
- 3. BRIDGE SEAT PIN FINISH TO MEET BEARING MANUFACTURER'S RECOMMENDED FINISH.

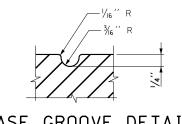
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CHECKED BY:	J. KILBORN	1/18/2022				10 WASH
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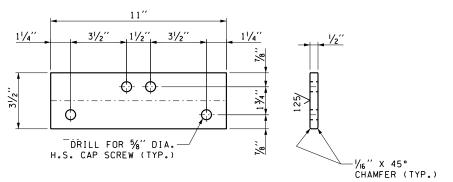


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EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	95
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BRIDGE SEAT PIN ASSEMBLY	124
DETAILS 2 OF 2	SHEETS





GREASE GROOVE DETAIL



COUNTERWEIGHT LINK BAR PIN ASSEMBLY



KEEPER PLATE DETAILS

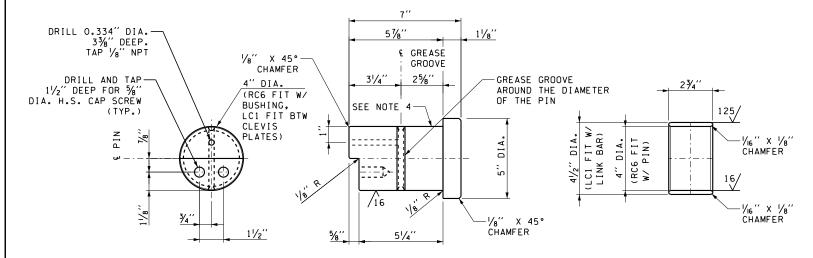


TABLE OF MATERIALS							
ITEM	ONT'Y	DESCRIPTION	MATERIAL	MANUFACTURER OR APPROVED EQUIVALENT			
COUNTERWEIGHT PIN	2	HARDENED TO RC 55-60 CHROME PLATED PER FEDERAL SPECS AMS 2460, FINISHED CHROME THICKNESS TO BE 0.001-0.003. DIMENSIONS APPLY AFTER PLATING.	4140 STEEL ALLOY	-			
PIN BUSHING	2	ALUMINUM BRONZE	UNC 63000	-			
KEEPER PLATE	2	-	ASTM A709 GRADE 50	-			
THRUST WASHER	4	41/8" I.D., 7" O.D., 3/16" THICKNESS	TLM THERMOSET COMPOSITE MATERIAL	ORKOT			
GREASE FITTING	2	√8 NPT GREASE FITTING	STAINLESS STEEL	-			

COUNTERWEIGHT LINK BAR PIN DETAILS

PIN BUSHING DETAIL

FILE NAME: PW: WSF/Eagle Harbor	/17w062SlipFtoDriveOn/P	E/PE_PD/CAD/_Contract_PI	ans/100%/17w0	62m03	_07.dlv
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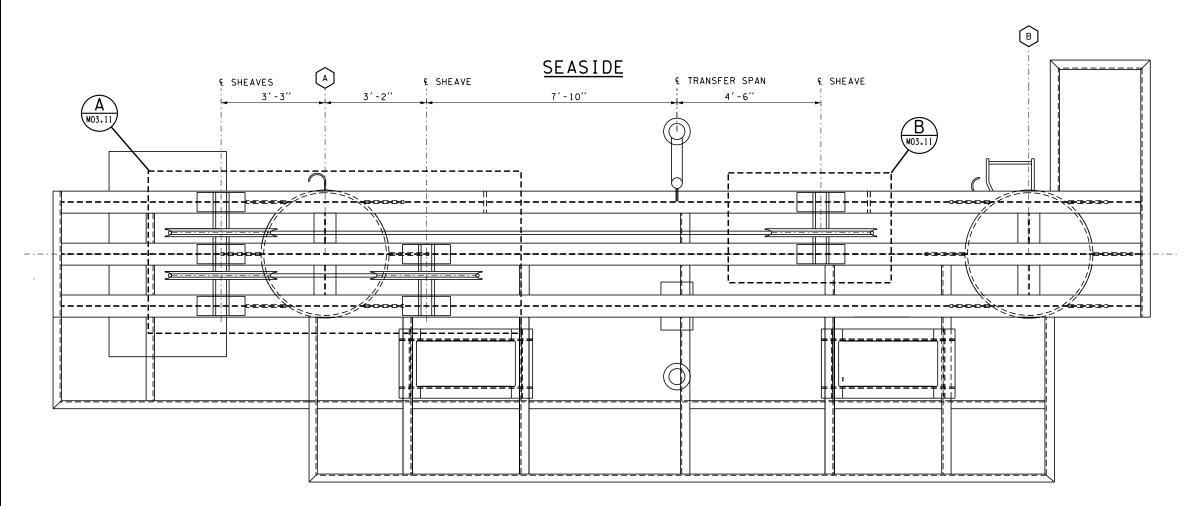




SR305	M03.07
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	96
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COUNTERWEIGHT LINK BAR PIN	
	124
ASSEMBLY DETAILS	SHEETS

MATERIALS LIST

PC#	QTY	DESCRIPTION	MATERIAL
1	4	42" NOMINAL OD SHEAVE FOR 1¼" DIA WIRE ROPE, (40" PITCH DIA) 5" BRONZE BUSHED BORE, HARDENED THROAT	CROSBY STOCK NO 4015853, OR APPROVED EQUAL
2	7	SHAFT SUPPORT	ASTM A27 GR. 70-36 FULLY ANNEALED
3	4	SPACER, CW SHAFT SHEAVE (SHORT)	ASTM A436, CLASS 2B OR ASTM A36
4	4	SPACER, CW SHAFT SHEAVE (LONG)	ASTM A436, CLASS 2B OR ASTM A36
5	1	CW SHEAVE SHAFT (LONG)	SAE 4140 0&T
6	2	CW SHEAVE SHAFT (SHORT)	SAE 4140 Q&T
7	14	SET SCREW, $\frac{1}{2}$ -13 UNC × 2" LG CUP POINT, SQUARE HD	COMMERCIAL SST
8	28	HEAVY HEX STRUCTURAL BOLT, $\frac{3}{4}$ -10 UNC \times 2" LG	ASTM A325, TYPE I, GALV
9	28	HEAVY HEX NUT, 34"-10 UNC	ASTM A563, GALV
10	28	FLAT WASHER 3/4"	ASTM F436, GALV



NOTES:

- 1. NOTES APPLY TO ALL MO3.1X SHEETS.
- 2. GREASE ALL MACHINED SURFACES ON SHAFTS AND SHAFT SUPPORTS DURING ASSEMBLY.
- 3. GREASE SHEAVE BUSHING BEFORE AND AFTER MOUNTING
- 4. GREASE WIRE ROPE PRIOR TO INSTALLATION, PER SPECIAL PROVISIONS.
- 5. USE GREASE TYPES CALLED OUT IN SPECIAL
- 6. WITH SPAN IN LEVEL POSITION, ADJUST TURNBUCKLES TO LEVEL COUNTERWEIGHT PIVOT PLATE.
- 7. TEST AND BALANCE THE TRANSFER SPAN PER THE SPECIAL PROVISIONS.
- 8. INSTALL SHAFTS WITH FLATS IN THE 12 O'CLOCK POSITION TO MATCH SET SCREW LOCATION.
- 9. PC NUMBERS REFLECT BUBBLED NUMBERS ON MO3.11.
- 10 SLIP CRITICAL CONNECTION, ALL SHAFT SUPPORTS. SEE SPECIAL PROVISIONS.
- 11. TOUCH UP PAINT EXPOSED HARDWARE AND ANY PREVIOUSLLY PAINTED SURFACES DAMAGED DURING ASSEMPMBLY IMMEDIATELY AFTER ASSEMBLY IS COMPLETED. PAINTED TO MATCH HEADFRAME AS CALLED OUT IN THE SPECIFICATIONS.
- 12 SHIM SHAFT SUPPORTS IF NECESSARY TO ALIGN SHEAVE SHAFTS. SEE SPECIFICATIONS.

SHORESIDE

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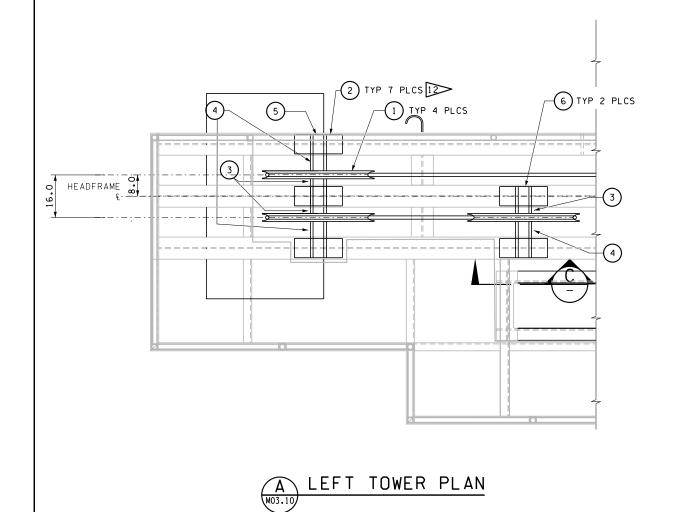


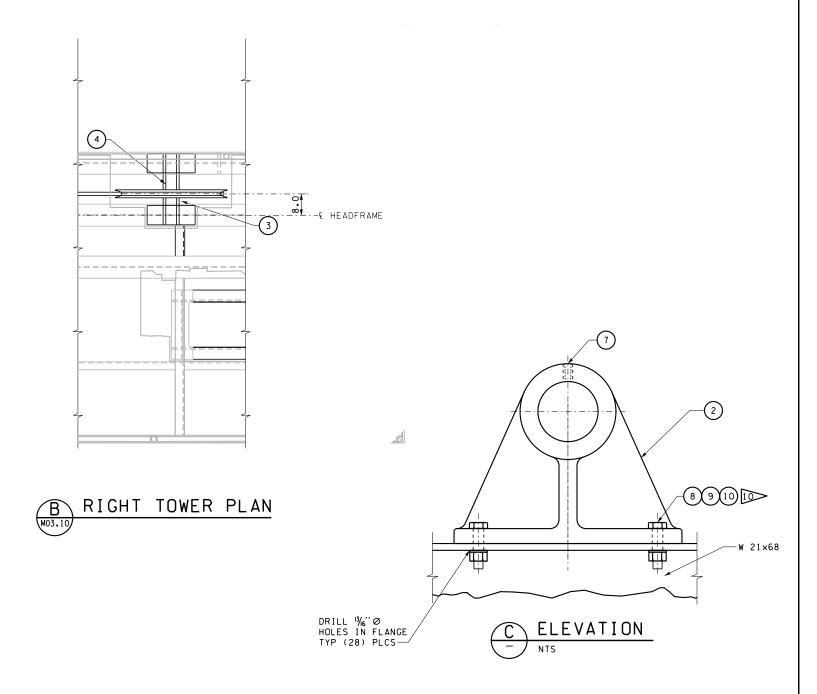
COUNTERWEIGHT SHEAVE LAYOUT

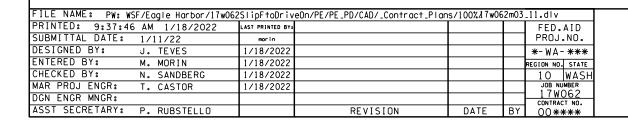
SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

M03.10 SHEET

> 97 OF 124









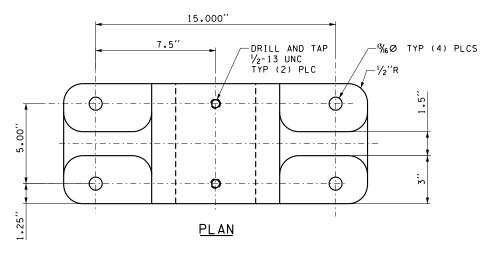


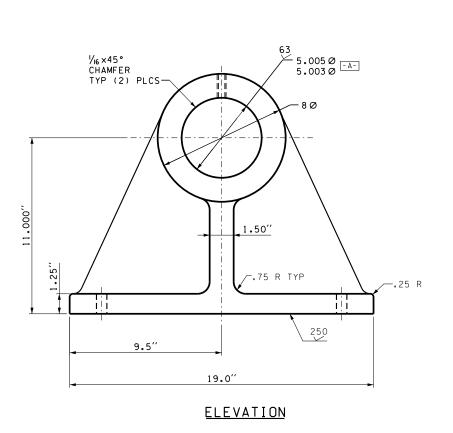
Washington State

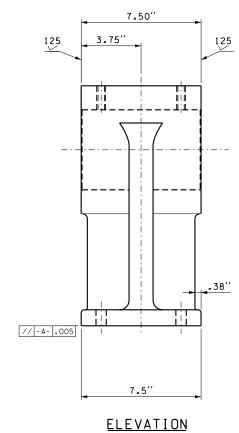
Department of Transportation

WASHINGTON STATE FERRIES

SR305	MO3.11
AGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP	SHEET 98 OF
COUNTERWEIGHT SHEAVE DETAILS I	124







PC2 - SHAFT SUPPORT

NOTES:

- 1. MATERIAL: CAST STEEL ASTM A27 GRADE 70-36 FULLY ANNEALED.
- 2. FURNISH MATERIAL CERTIFICATION.
- 3. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
- 4. ALL MACHINED SURFACES TO BE 125 UNLESS OTHERWISE NOTED.
- 5. PROTECT MACHINED BORE WITH LIGHT MACHINE OIL.
- 6. PAINT IN ACCORDANCE WITH SPECIFICATIONS. NO PAINT ON 5.003/5.005 BORE.
- 7. PRIMER ONLY ON FAYING SURFACES.
- 8. PERFORM MAGNETIC PARTICLE TESTING ON MACHINED BORE PER ASTM E079. PERFORM 10x VISUAL INSPECTION OF ALL SURFACES. FURNISH TEST RESULTS AND CERTIFICATIONS PRIOR TO ASSEMBLY.

DIMENSIONS ARE IN INCHES, UNLESS NOTED. SURFACE FINISHES ARE IN MICROINCHES. TOLERANCES: ±.06"

±.030" X.XXX.XXX ±.005"

ANGULAR 0° 30'

FILE NAME: PW: W	/SF/Eagle Harbor/17w0	62SIipFtoDriveOn/	PE/PE_PD/CAD/_Contract_Pla	ns/100% <i>1</i> 7w06	2m03	_12.dlv
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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE
CHECKED BY:	N. SANDBERG	1/18/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****





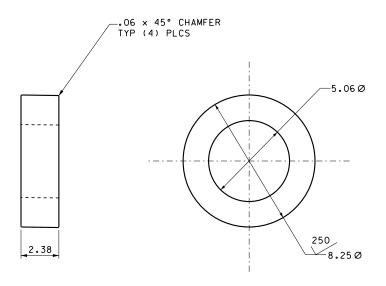
WASHINGTON STATE FERRIES

SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

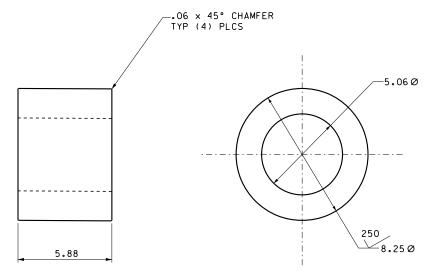
COUNTERWEIGHT SHEAVE DETAILS II

SHEET 99 OF 124

MO3.12



PC3 - SPACER, SHAFT COUNTERWEIGHT



PC4 - SPACER, SHAFT COUNTERWEIGHT

NOTES:

- 1. FURNISH MATERIAL CERTIFICATION FOR ALL MATERIAL.
- 2. ALL MACHINED SURFACES TO BE 125 EXCEPT AS OTHERWISE NOTED.
- 3. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
- 4. MATERIAL: ASTM 668 CLASS D STEEL
- 5. PREPARE, PRIME AND PAINT PER SPECIFICATIONS.

UNITS:
DIMENSIONS ARE IN INCHES, UNLESS NOTED.
SURFACE FINISHES ARE IN MICROINCHES.
TOLERANCES: X.X ±.06"

X.XX ±.030" X.XXX ±.005"

ANGULAR 0° 30'

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ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE		
CHECKED BY:	N. SANDBERG	1/18/2022				10 WASH		
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DGN ENGR MNGR:						17W062		
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	ΒY	00****		



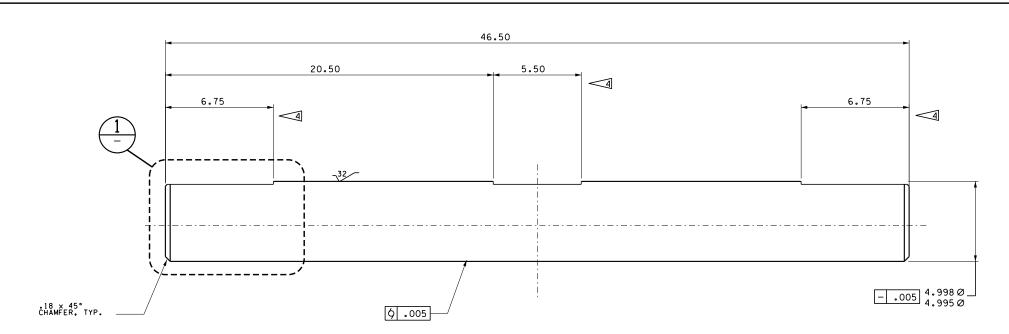


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EAGLE	НΔ	ARE	30R	МΑ	INTE	NAN	CE I	FACIL	ITY
SL	ΙP	F	DR I	VE	ON	TIE	-UP	SLIP	ı

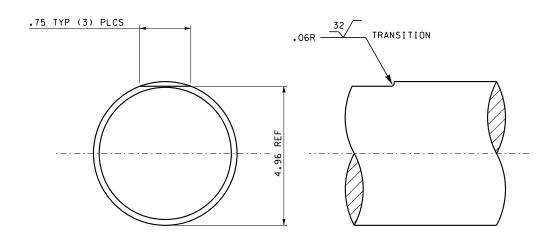
COUNTERWEIGHT SHEAVE DETAILS III

MO3.13

SHEET
100
0F
124
SHEETS



PC5 - SHAFT CW SHEAVE (LONG)





GENERAL NOTES

- 1. FURNISH MATERIAL CERTIFICATION FOR ALL
- 2. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
- 3. ALL MACHINED SURFACES TO BE 125 EXCEPT AS

4-MILL TOP FLAT .75" WIDE, RADIUS CORNERS .06 MIN. SEE DETAIL.

- 5. MATERIAL: SAE 4340 Q & T, 153 KSI ULT, 131 KSI YIELD, 330-360 BHN MIN.
- 6. PROTECT MACHINED SURFACES WITH LIGHT MACHINE OIL.
- 7. PERFORM ULTRASONIC TESTING PER SAE 2154, CLASS A ON WROUGHT MATERIAL PRIOR TO MACHINING. ALSO, PERFORM MAGNETIC PARTICLE TESTING PER ASTM E709 AFTER MACHINING. FURNISH TEST RESULTS AND CERTIFICATIONS PRIOR TO ASSEMBLY.

UNITS: DIMENSIONS ARE IN INCHES, UNLESS NOTED. SURFACE FINISHES ARE IN MICROINCHES. TOLERANCES: X.X

X.XX ±.030"

x.xxx ±.005"

ANGULAR 0° 30'

	F/Eagle Harbor/17w062	SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	s/100%/17w06	2m03	_14.dlv
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SUBMITTAL DATE:	1/11/22	morin				PROJ.NO.
DESIGNED BY:	J. TEVES	1/18/2022				*-WA-***
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE
CHECKED BY:	N. SANDBERG	1/18/2022				10 WASH
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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****



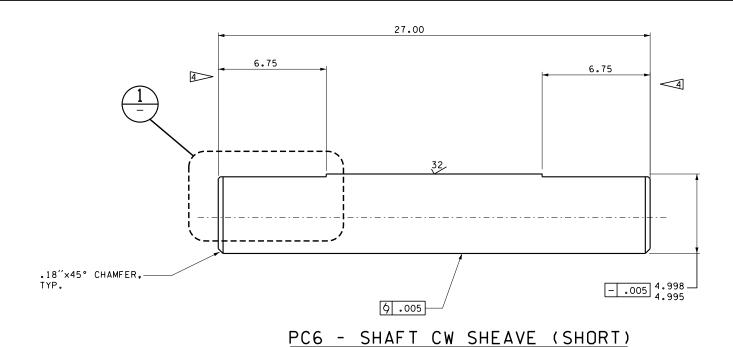


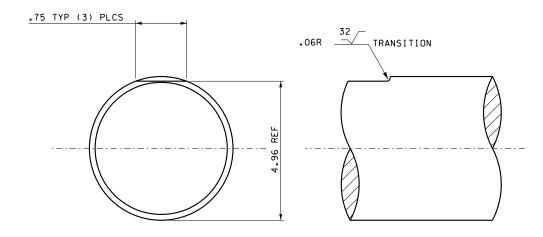
WASHINGTON STATE FERRIES

SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

COUNTERWEIGHT SHEAVE DETAILS IV

MO3.14 SHEET 101 OF 124







GENERAL NOTES

- 1. FURNISH MATERIAL CERTIFICATION FOR ALL
- 2. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
- 3. ALL MACHINED SURFACES TO BE 125 EXCEPT AS NOTED.

4 MILL TOP FLAT .75" WIDE, RADIUS CORNERS .06 MIN. SEE DETAIL.

- 5. MATERIAL: SAE 4340 0 & T, 153 KSI ULT, 131 KSI YIELD, 330-360 BHN MIN.
- 6. PROTECT MACHINED SURFACES WITH LIGHT MACHINE OIL.
- 7. PERFORM ULTRASONIC TESTING PER SAE 2154, CLASS A ON WROUGHT MATERIAL PRIOR TO MACHINING. ALSO, PERFORM MAGNETIC PARTICLE TESTING PER ASTM E709 AFTER MACHINING. FURNISH TEST RESULTS AND CERTIFICATIONS PRIOR TO ASSEMBLY.

DIMENSIONS ARE IN INCHES, UNLESS NOTED. SURFACE FINISHES ARE IN MICROINCHES. TOLERANCES: X.XX ±.030"

X.XXX±.005" ANGULAR 0° 30'

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ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	ΒY	00****	

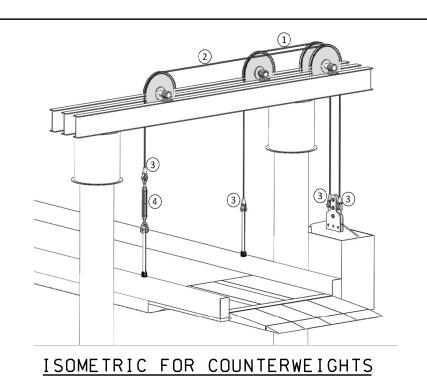


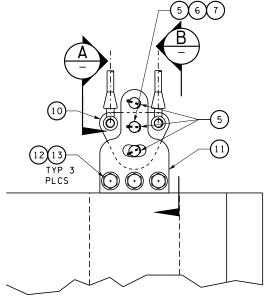


COUNTERWEIGHT SHEAVE DETAILS V

SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

MO3.15 SHEET 102 OF 124 SHEETS



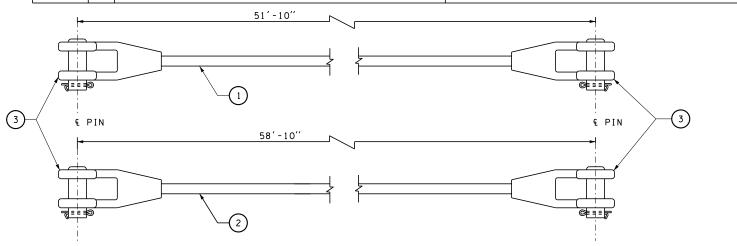


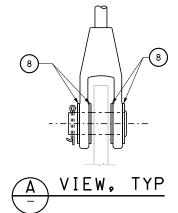
CWT CONNECTORS ELEVATION VIEW

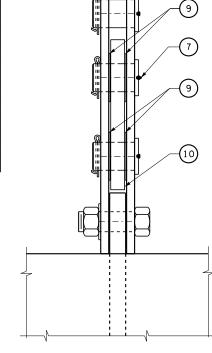
NOTES:

- 1. GREASE ALL MACHINED PINS AND HOLES BEFORE ASSEMBLY. GREASE CENTER PIN THRU GREASE FITTING AFTER ASSEMBLY. GREASE SHALL BE PREMALUBE RED *2 BY CHEMSEARCH. SEE SPECIAL PROVISIONS FOR MANUFACTURER'S CONTACT INFORMATION.
- 2. GREASE WIRE ROPE PER THE SPECIAL PROVISIONS.
- 3. WIRE ROPE LUBRICANT SHALL BE #199 SILVER STREAK WIRE ROPE LUBE. SEE SPECIAL PROVISIONS FOR MANUFACTURER'S CONTACT INFORMATION.
- 4. WITH TRANSFER SPAN LEVEL ADJUST TURNBUCKLES TO LEVEL COUNTERWEIGHT PIVOT PLATES, THEN TEST AND BALANCE THE TRANSFER SPAN PER THE SPECIAL PROVISIONS.
- 5. WSF MECHANICAL ENGINEER TO INSPECT SOCKETS BEFORE WIRE ROPE ASSEMBLIES ARE SHIPPED.
- 6. RECORD COUNTERWEIGHT AS-BUILT WEIGHT IN SPACE PROVIDED ON PLANS.
- 7. PC# REFERS TO BUBBLED NUMBER # ON SHEETS MO3.16 AND MO3.17.

PC#	QTY	DESCRIPTION	MATERIAL
1	1	11/4" DIA. 6X37 IWRC WIRE ROPE 51'-10" LG	RIGHT REGULAR LAY, XIP, COLD DRAWN GALV, PREFORMED, MINIMUM BREAKING STRENGTH 79.9 TONS
2	1	11/4" DIA. 6X37 IWRC WIRE ROPE 58'-10" LG	RIGHT REGULAR LAY, XIP, COLD DRAWN GALV, PREFORMED, MINIMUM BREAKING STRENGTH 79.9 TONS
3	4	11/4" OPEN SPELTER SOCKET, CROSBY G-416 #1039771	HOT DIP GALV STL, RR-S-550D, TYPE A
4	1	21/2" x 24" TURNBUCKLE CROSBY HG-227 JAW & EYE, #1032457	HOT DIP GALV, ASTM F-1145, FED. SPEC. FF-T-791B TYPE 1, FORM 1, CLASS 8
5	3	COUNTERWEIGHT PINS	SEE DETAIL (5) SHEET MO3.17
6	3	.375Ø × 4.5 LG COTTER PIN	STAINLESS STEEL COMMERCIAL GRADE
7	1	√8 NPT GREASE FITTING	STAINLESS STEEL COMMERCIAL GRADE
8	8	2¾" PLAIN WASHER	HOT DIP GALV, ANSI B18.22.1 TYPE A
9	4	ORKOT THRUST WASHER	ORKOT TLM-S THERMOSET COMPOSITE BEARING MATERIAL, 3.6" ID, 6" OD, .18" THICK
10	1	COUNTERWEIGHT PIVOT PLATE	SEE DETAIL (10) SHEET MO3.17
11	2	COUNTERWEIGHT CONNECTION PLATE	SEE DETAIL (1) SHEET MO3.17
12	3	21/2" Ø HEXHEAD NUT & BOLT	GALV A446
13	3	21/2"Ø WASHERS	HOT DIP GALV STL







B VIEW, TYP

WIRE ROPE ASSEMBLIES
NOT SHOWN FOR CLARITY.

FILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%//w062m03_16.dlv								
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CHECKED BY:	N. SANDBERG	1/18/2022				10 WASH		
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER		
DGN ENGR MNGR:						17W062		
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****		





SCALE 1" = 1'-0"

Washington State

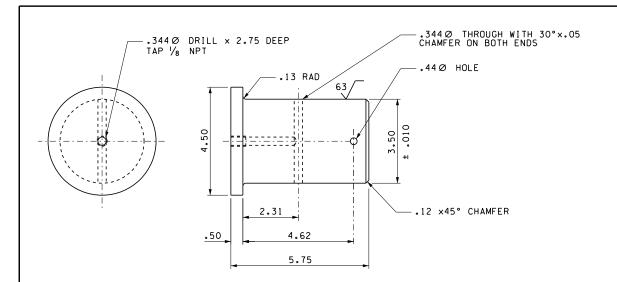
Department of Transportation

WASHINGTON STATE FERRIES

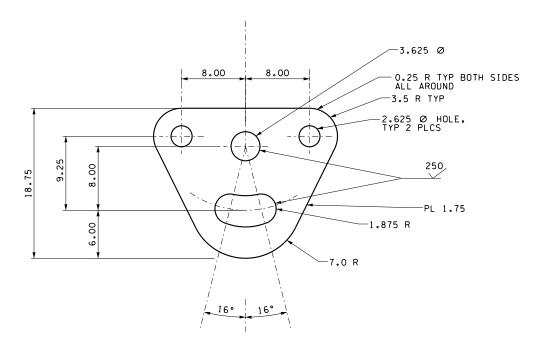
SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
11/4'' COUNTERWEIGHT WIRE ROPE
ASSEMBLIES

MO3.16

SHEET
103
0F
124
SHEETS



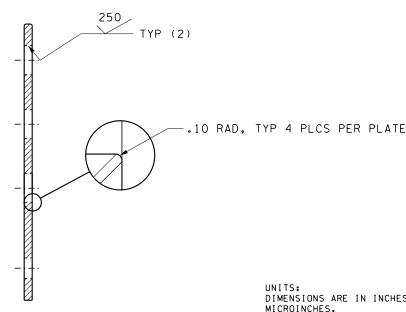
DETAIL - COUNTERWEIGHT PIN



DETAIL COUNTERWEIGHT PIVOT PLATE

0.25 RADIUS ALL OUTSIDE CORNERS AS INDICATED 3.625 Ø HOLE -3.0 R TYP 5.0 R TYP TYP 3 PLCS 8.00 ±.015

COUNTERWEIGHT CONNECTION PLATE



DIMENSIONS ARE IN INCHES, UNLESS NOTED. SURFACE FINISHES ARE IN MICROINCHES.

±.06' TOLERANCES:

PC 5 NOTES:

Fu = 125 KSI Fy = 100 KSI

PC 10 NOTES:

PC 11 NOTES:

COLOR SHALL BE BLACK.

1. FURNISH MATERIAL CERTIFICATION.

3. ALL MACHINED SURFACES TO BE 125

2. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.

5. PAINT WITH MARINE GRADE 2-PART EPOXY PAINT.

1. MATERIAL ASTM A709 GRADE 50 Fy= 50 KSI.

3. HOT DIP GALVANIZE AFTER FABRICATION.

2. BREAK EDGES AND SHARP CORNERS $V_{\rm 16}\,\rm R$ MINIMUM, EXCEPT AS NOTED.

4. FURNISH MATERIALS CERTIFICATION FOR ALL MATERIALS.

TOP 3.625 Ø HOLE IS HOLDING SPOT FOR THE MOVING OF COUNTERWEIGHTS WITH A LIFTING DEVICE.

BREAK ALL EDGES 0.06 R MINIMUM EXCEPT AS NOTED.

5. FURNISH MATERIALS CERTIFICATION FOR ALL MATERIALS.

2. MATERIAL: ASTM A709 GRADE 50, Fy = 50 KSI.

4. HOT DIP GALVANIZE AFTER FABRICATION.

4. MATERIAL: SAE 4140 STEEL, HEAT TREATED, QUENCHED, TEMPERED AND STRESS RELIEVED, 269 TO 321 BHN.

> X.XX ±.030" ±.005" X.XXX ANGUL AR 0°30′

SECTION





Washington State Department of Transportation WASHINGTON STATE FERRIES

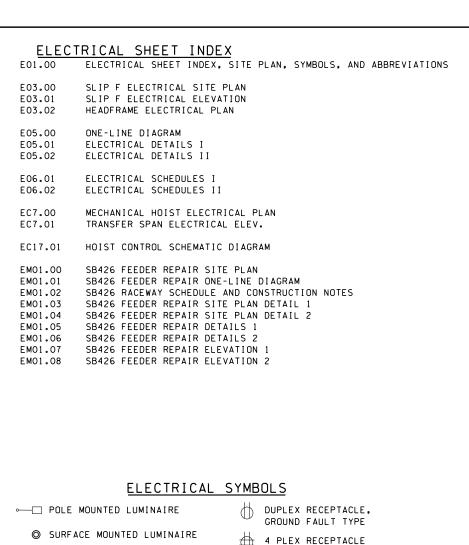
SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP

COUNTERWEIGHT PIVOT PLATE

SHEET 104 OF 124 SHEETS

MO3.17

FILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%17w062m03_17.dlv PRINTED: 9:38:18 AM 1/18/2022 LAST PRINTED B FED.AID SUBMITTAL DATE: 1/11/22 PROJ.NO. morin DESIGNED BY: J. TEVES 1/18/202 *-WA-*** ENTERED BY: 1/18/202 M. MORIN GION NO. STATE CHECKED BY: N. SANDBERG 1/18/2022 10 WASH MAR PROJ ENGR: JOB NUMBER 17W062 T. CASTOR 1/18/2022 DGN ENGR MNGR: ASST SECRETARY: P. RUBSTELLO REVISION DATE 00****



PANELBOARD, 208 OR 240V

RECEPTACLE, SPECIAL TYPE AS INDICATED

PANELBOARD, 480V

ELECTRICAL CONNECTION

(PE) PHOTOCELL

CONSTRUCTION NOTE

WIRE NOTE

-..- HEAVY LINES INDICATE NEW CONDUIT

----- LIGHT LINES INDICATE EXISTING CONDUIT



CROSS-SECTION CALLOUT



SECTION OR ELEVATION TITLE LABLE



DETAIL REFERENCE

ABBREVIATIONS

AMPERE ΑĊ ALTERNATING CIRCUIT CONDUIT CKT CIRCUIT

CU COPPER EX. EXISTING G, GND GFI GROUND

GROUND FAULT INTERRUPTER HANDHOLE FOR EXAMPLE OR IN OTHER WORDS I.E. KILOVOLTAGE-AMPERE

KVAKW KILOWATT

LTG LIGHTING LCP LIGHTING CONTROL PANEL

MC MIN. METAL CLAD MINIMUM POLE PHASE

REC RECEPTACLE RIGID GALVANIZED STEEL RGSP RIGID GALVANIZED STEEL PVC CONDUIT COATED CONDUIT UNLESS OTHERWISE NOTED

UON WEATHERPROOF IMPEDANCE

ELECTRICAL BUILDING B BUILDING (SHORE GANG BUILDING)-BUILDING A (MAINTENANCE BUILDING) BUILDING C (TOOL STORAGE) SEE E03.00 PO FLOAT SLIP E 91 J2 PIER 1 TRASK PIER

FILE NAME: PW: WSF/Eagle Harbor/17w062SlipFtoDriveOn/PE/PE_PD/CAD/_Contract_Plans/100%17w062e01_00 Site Plan. PRINTED: 1:29:35 PM 1/21/2022 LAST PRINTED BY FED.AID SUBMITTAL DATE: 1/11/22 PROJ.NO. morin DESIGNED BY: 1/21/202 *-WA-** ENTERED BY: M. MORIN 1/21/202 GION NO. STATE CHECKED BY: 1/21/2022 10 WASH MAR PROJ ENGR: T. CASTOR 1/21/2022 JOB NUMBER 17W062 DGN ENGR MNGR: ASST SECRETARY: P. RUBSTELLO REVISION DATE 00****





Washington State Department of Transportation WASHINGTON STATE FERRIES

SR305									
EAGLE HARBOR MAINTENANCE FACILITY									
SLIP F DRIVE ON TIE-UP SLIP									
ELECTRICAL SHEET INDEX, SITE PLAN									
SYMBOLS AND ABBREVIATIONS									

E01.00 SHEET 105

____ 50 1 SCALE 1" = 100'

-BUILDING D

(WELD SHOP)

SEE EMO1.03

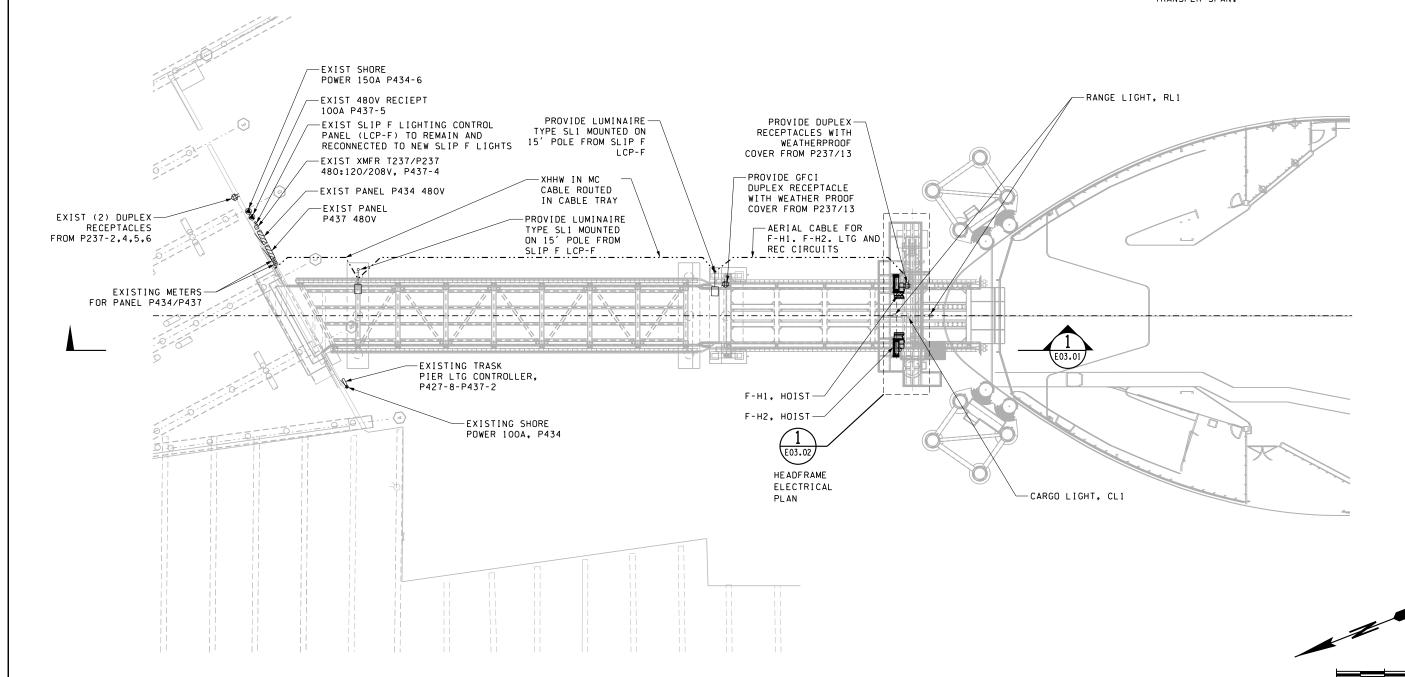
SEE EM01.04

OF 124 SHEETS



- 1. ALL CONDUIT SHALL BE PVC-COATED, RIGID GALVANIZED STEEL, UNLESS OTHERWISE NOTED.
 2. FOR ADDITIONAL EQUIPMENT AND LIGHTING INFORMATION REFER TO E6.01 FOR EQUIPMENT CONNECTION AND WIRING SCHEDULE AND LIGHTING LUMINAIRE SCHEDULE.
- 3. REFER TO E6.01 AND E6.02 FOR PANELBOARD SCHEDULES.
 4. REFER TO E05.01 FOR DETAILS AND SLIP F LIGHTING DIAGRAM.
- 5. ALL JUNCTION BOXES TO BE 316 STAINLESS STEEL, NEMA
- 4X TYPE WITH HINGED COVER AND PAD-LOCKABLE.

 6. NO SPLICES ON CABLE TRAY. SPLICES ONLY IN JUNCTION BOXES. 7. PROVIDE LIQUID-TIGHT, FLEXIBLE METALLIC CONDUIT FOR ALL CONDUIT RUNS AT TRANSITION FROM YARD PIER TO
- TRANSFER SPAN.



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DESIGNED BY:	P. LEKHAKUL	1/21/2022				*-WA-***			
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CHECKED BY:	J. LEYSATH	1/21/2022				10 WASH			
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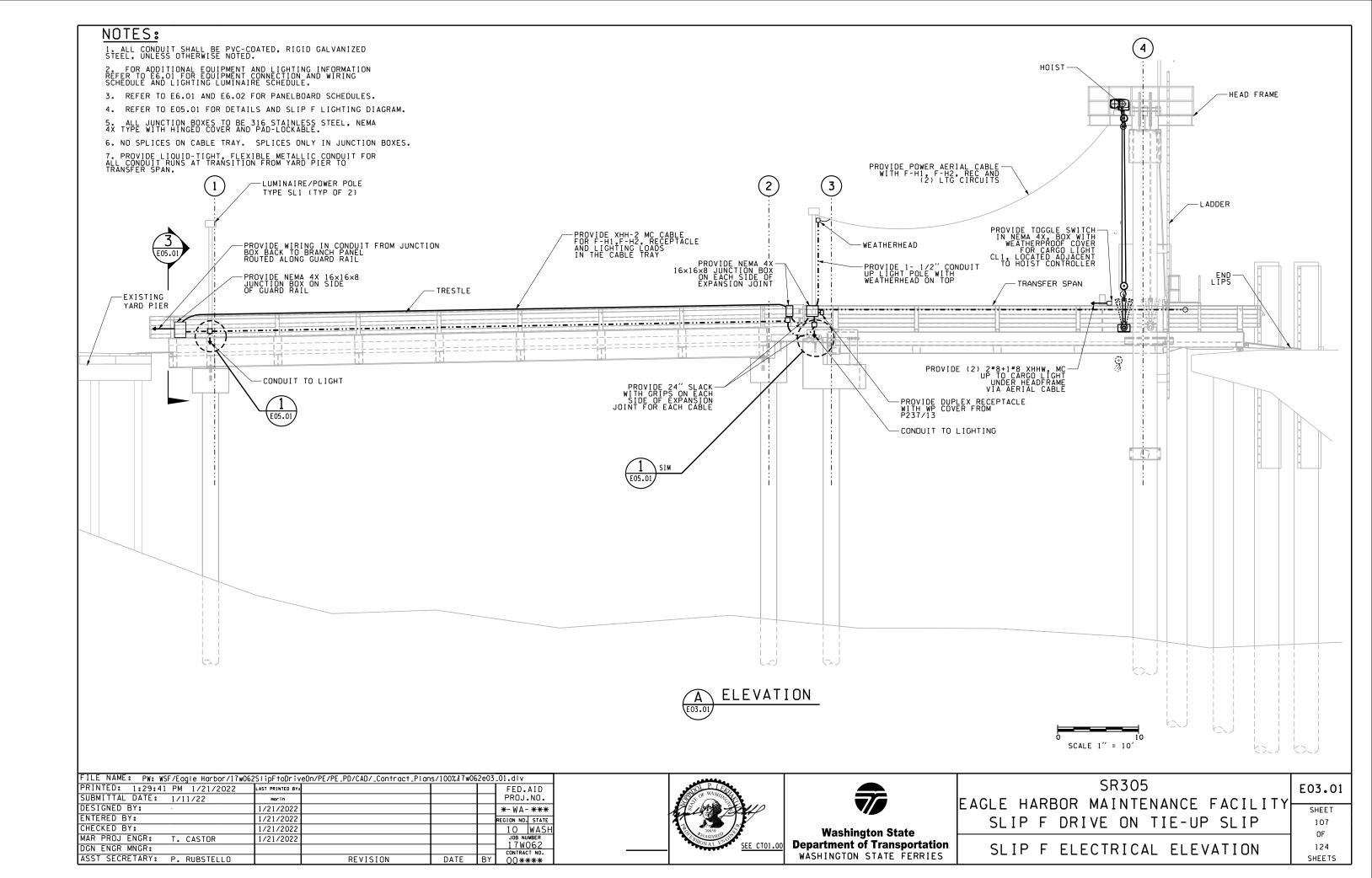


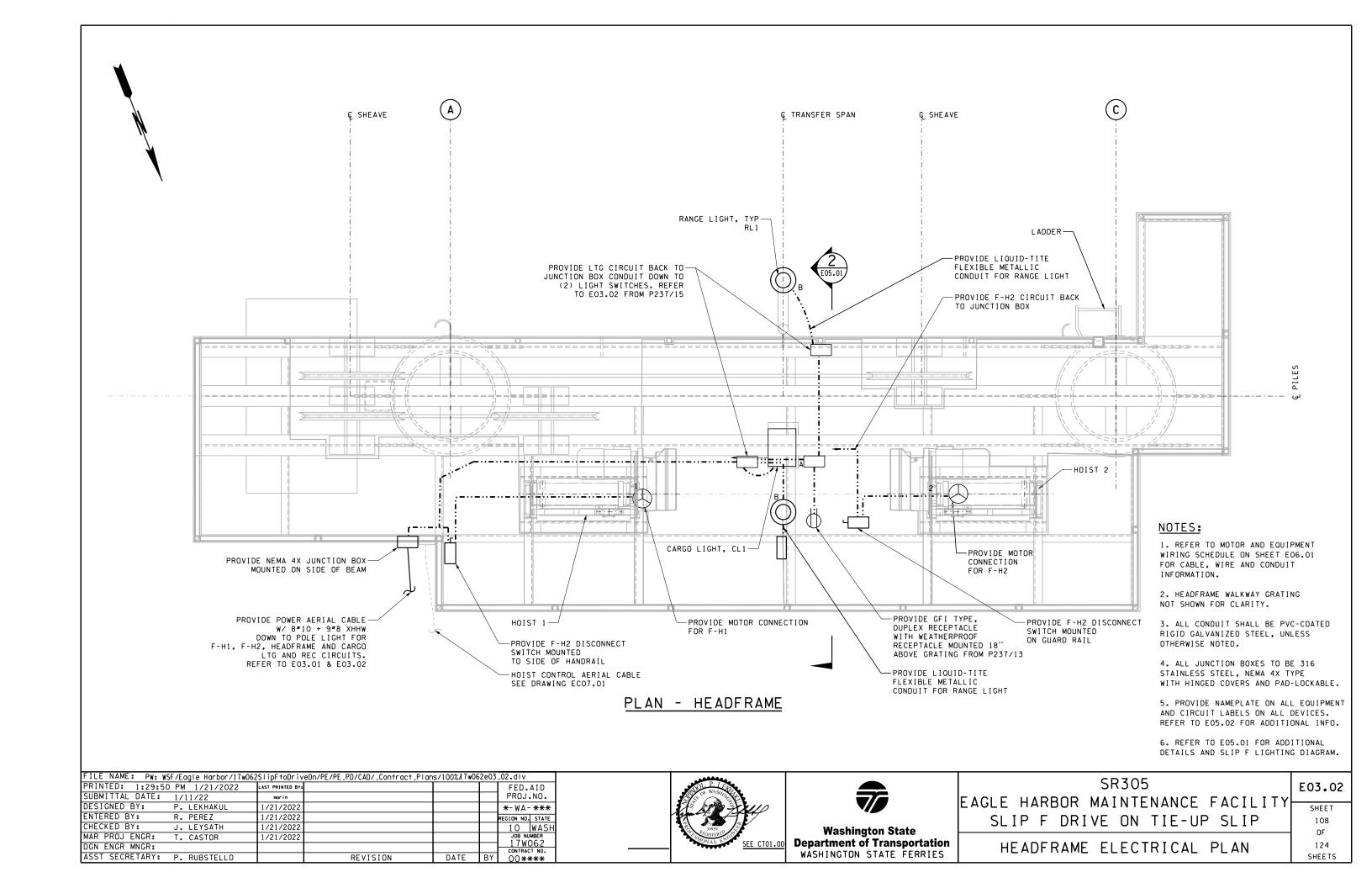


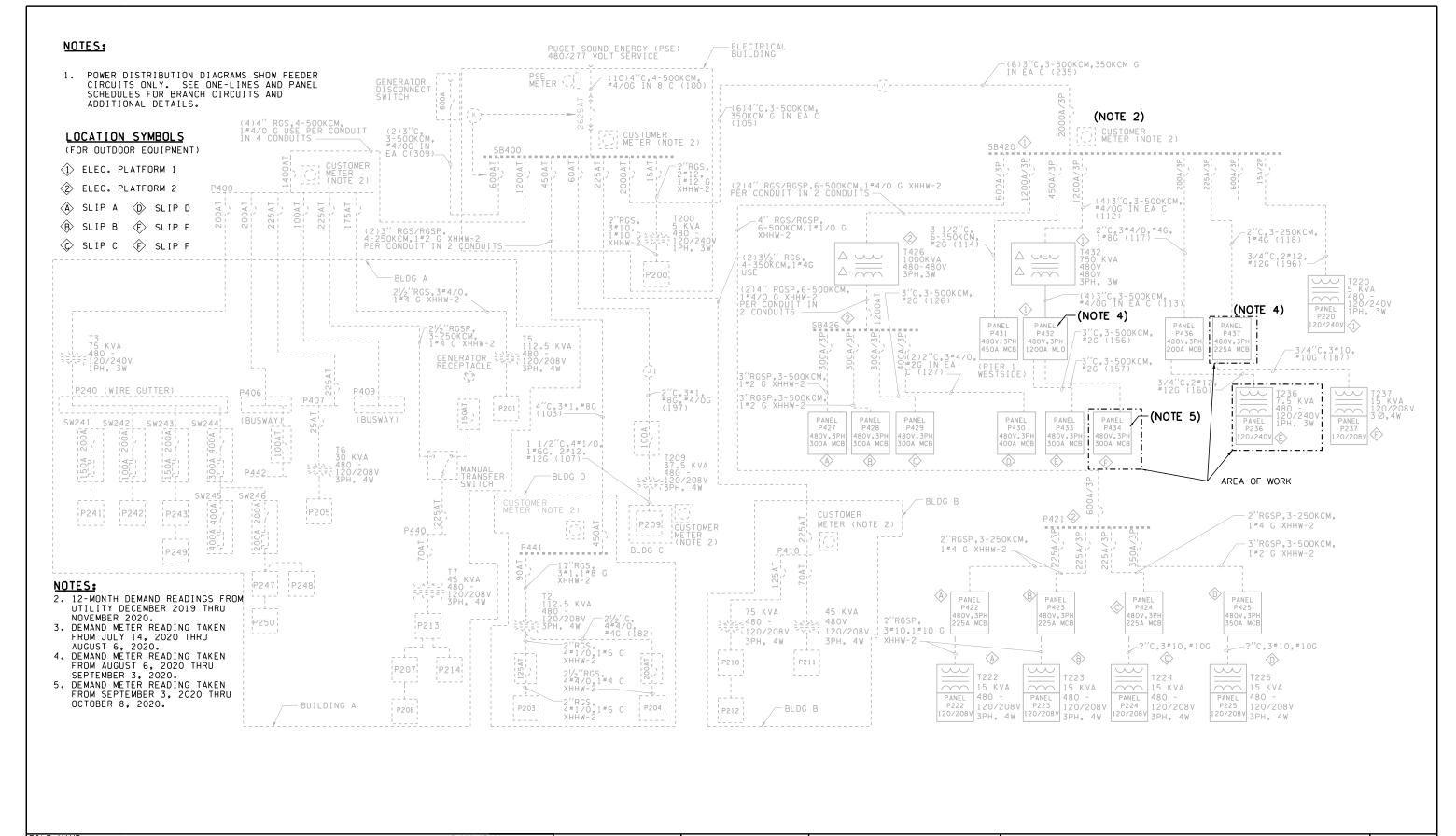
Washington State
Department of Transportation WASHINGTON STATE FERRIES

SR305 EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP SLIP F ELECTRICAL SITE PLAN

E03.00 SHEET 106 OF 124 SHEETS







FILE NAME: PW: W	SF/Eagle Harbor/17w06:	2SIipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	is/100% <i>1</i> 7w06	2e05	_00.dlv
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CHECKED BY:		1/21/2022				10 WASH
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DGN ENGR MNGR:						17W062
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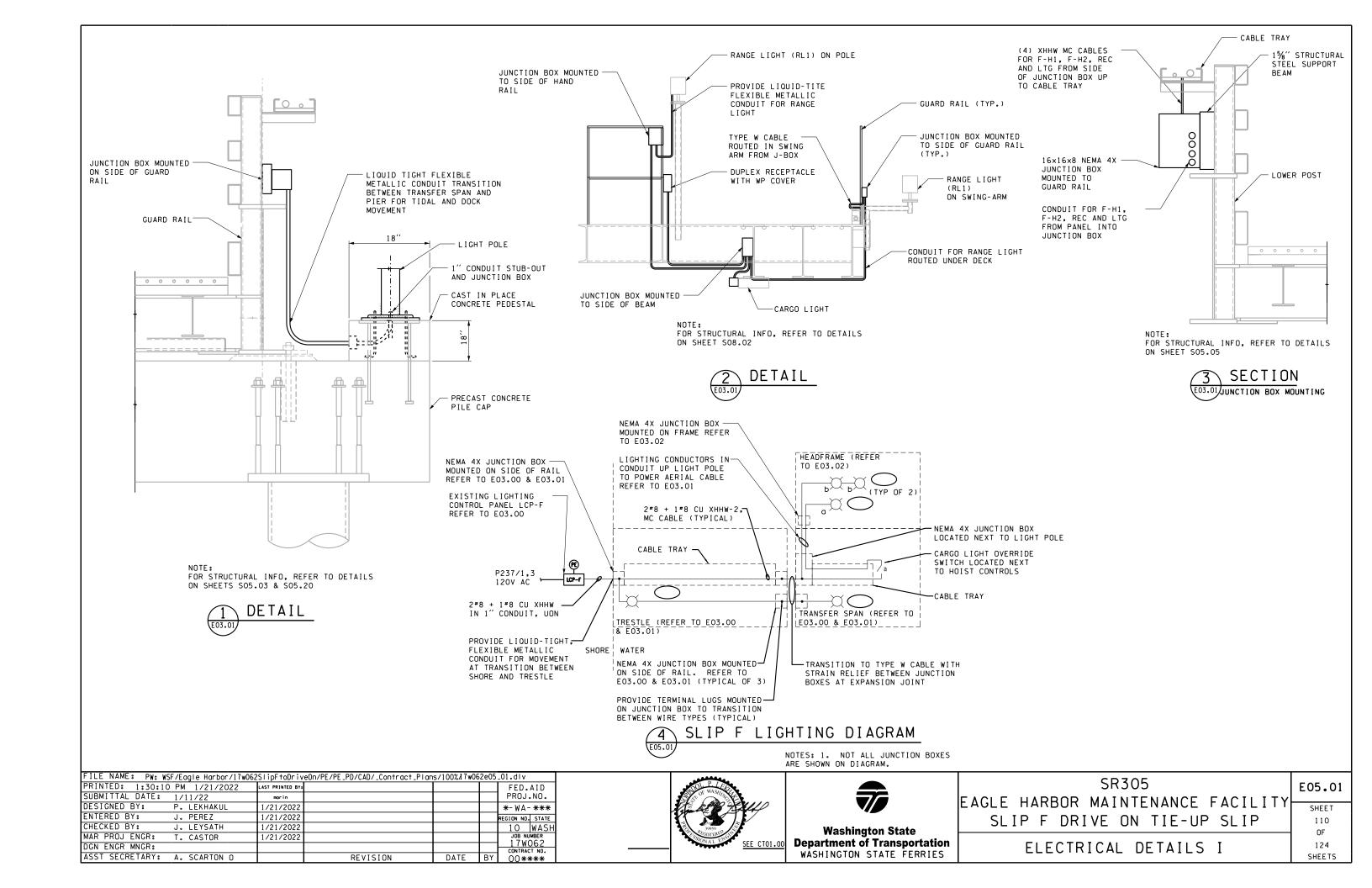
Washington State
Department of Transportation
WASHINGTON STATE FERRIES

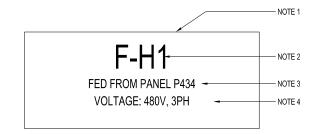
SR305
EAGLE HARBOR MAINTENANCE FACILITYSLIP F DRIVE ON TIE-UP SLIP

ONE LINE DIAGRAM

E05.00

SHEET 109 0F 124 SHEETS





NOTES:

- 1. ENGRAVED PLASTIC: WHITE LETTERS BLACK BACKGROUND.
- 2. 1/2-INCH HIGH LETTERS, CHANGE NAME AS NECESSARY.
- 3. 3/16-INCH HIGH LETTERS, CHANGE NAME AS NECESSARY.
- 4. 3/16-INCH HIGH LETTERS, CHANGE VOLTAGE, PHASE AND CONFIGURATION AS NECESSARY.



	SF/Eagle Harbor/17w062	2SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	is/100% <i>1</i> 7w06	2e05	_02.dlv
PRINTED: 1:30:16	5 PM 1/21/2022	LAST PRINTED BY:				FED.AID
SUBMITTAL DATE:	1/11/22	morin				PROJ.NO.
DESIGNED BY:	P. LEKHAKUL	1/21/2022				*-WA-***
ENTERED BY:	J. PEREZ	1/21/2022				REGION NO. STATE
CHECKED BY:	J. LEYSATH	1/21/2022				10 WASH
MAR PROJ ENGR:	T. CASTOR	1/21/2022				JOB NUMBER
DGN ENGR MNGR:						17W062
ASST SECRETARY:	A. SCARTON O		REVISION	DATE	BY	00****





SR305 EAGLE HARBOR MAINTENANCE FACILITY	E05.02
EAGLE HARDUR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	111
	OF
ELECTRICAL DETAILS II	124
	CHEETC

	EQUIPMENT CONNECTION AND WIRING SCHEDULE												
							DISCO	NNECT	ST	ARTE	R		
EQUIPMENT	DESCRIPTION	HP/	VOLTS	PH	PANEL	WIRE AND CONDUIT	SIZE	FUSE	NEMA	CON	⁄IB'N	REMARKS	
ID		KW					AMPS	AMPS	SIZE	YES	NO		
						2 #40 + 4 #40 C CH VIII IM 48C						NEMA 4X, 316 STAINLESS STEEL	
F-H1	HOIST	9.0 KW	480	3	P434	3 #10 + 1 #10 G, CU XHHW, 1"C 3 #10 + 1 #10 G, CU XHHW, MC CABLE IN CABLE TRAY 4/C #8 TYPE W AT EXPANSION JOINT	30	*	-	x		PROVIDE NAMEPLATE PER DETAIL 1, E05.02	
F-H2	HOIST	9.0 KW	480	3	P434	3 #10 + 1 #10 G, CU XHHW, 1"C 3 #10 + 1 #10 G, CU XHHW, MC CABLE IN CABLE TRAY 4/C #8 TYPE W AT EXPANSION JOINT	30	*	-	х		NEMA 4X, 316 STAINLESS STEEL PROVIDE NAMEPLATE PER DETAIL 1, E05.02	
LTG	HEADFRAME & CARGO LIGHT	0.18 KVA	120	1	P237	2 #8 + 1 #8 G, CU XHHW, 1"C 2 #8 + 1 #8 G, CU XHHW, MC CABLE IN CABLE TRAY 3/C #8 TYPE W AT EXPANSION JOINT	20	_	-	-	-	TOGGLE SWITCH WITH WEATHERPROOF COVER VIA LCP-F	
REC	RECEPTACLE	0.18 KVA	120	1	P237	2 #8 + 1 #8 G, CU XHHW, 1"C 2 #8 + 1 #8 G, CU XHHW, MC CABLE IN CABLE TRAY 3/C #8 TYPE W AT EXPANSION JOINT	-	-	-	-	-	PROVIDE WITH WEATHERPROOF COVER	

^{*} SIZE FUSES PER MANUFACTURER'S RECOMMENDATION

	LIGHTI	NG LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	MODEL	LAMPS	WATTS	LUMENS	MOUNTING	VOLTAGE	REMARKS
SL1	SINGLE AREA LIGHT ON 15' HIGH ALUMINUM POLE -	MCGRAW-EDISON:	LED	300	8000	POLE	120/277V	PROVIDE WITH BIRD SPIKES
	ON TOP OF A 3.5" BASE	GLEON-AF-02-LED-E1-SL2-BK-8030-HSS	3000K					
CL1	CARGO LIGHT AT BOTTOM	FAIL SAFE FA1	LED	51	4700	SURFACE	120/277	
	OF HEADFRAME BEAM	FA1-B02-LED-E1-5MQ-BK-316SS	3000K					
RL1	RANGE LIGHT ON TOP OF	B&B ELECTROMATIC MODEL NO.	LED	15	-	SURFACE	120V	PROVIDE WITH BIRD SPIKES
	HEADFRAM BEAM	MS53-PM-JB-RT-B-R360	RED					

	PANEL NAME: SB420	(EXISTING)					PANEL	. SCHI	EDULE		MFGR: SQUARE D	
	LOCATION: TREST	TLE				VOL7			1	OF 1	CAT#	
	FED FROM: SB400			3 PHAS	E, 3 WIRE	SURF	ACE MOUNT	PNL				
	kAIC SYM	2	000 AMP	MAIN CB	2000	AMP	BUS			CU BUS	100% NEUTRAL	
CKT.					CB			Р		CB		Ck
NO.		CIRCUIT DESCRIP	PTION			POL	kVA	Н	kVA	AMPS PO		No
1	PANEL P421				600/	3	0.00	а	0.00	200/ 3	PANEL P436	2
	•				-		0.00	b	0.00		•	
	•				-		0.00	С	0.00	•	•	
3	SB426 VIA TRANSFOR	RMER T426			1200/	3	0.00	а	0.19	225/ 3	PANEL P437	4
	-				-		0.00	b	0.10	•	-	
	-				-		0.00	С	0.09	•	•	
5	PANEL P431				450/	3	0.00	а	0.00	600/ 3	SPARE	6
	•				-		0.00	b	0.00	•	-	
	-				-		0.00	С	0.00	•	-	
7	PANEL 432 VIA TRAN	SFORMER T432			1200/	3	6.00	а	0.00	15/ 2	PANEL P220 (MINI POWER ZONE UNIT)	8
	-				-		6.00	b	0.00	•	-	
	-				-	,	6.00	С	0.00	/ 1	SPACE	
9	SPACE				- /	3	0.00	а	0.00	/ 3	SPACE	10
	-				-		0.00	b	0.00	•	-	
	-						0.00	С	0.00	-	-	
LOAD		CONN LOAD	FACTOR	CALC LOAD				NOT	ES			
LIGHT		0.20 kVA	125%		kVA			UTILI	ITY METER IN	STALLED FOR	SWITCHBOARD	
	PTACLES	0.18 kVA	50%>10kVA		kVA			1. EX	ISTING SCHE	DULE FOR REF	FERENCE ONLY.	
	IOTORS	18.00 kVA	100%	18.00								
LRGS	T MOTOR	0.00 kVA	125%	0.00	kVA							
KITCH	IEN	0.00 kVA	100%	0.00	kVA							
MISCE	ELLANEOUS	0.00 kVA	100%	0.00	kVA							
NON-	COINCIDENT	0.00 kVA	0%	0.00	kVA							
EXIST	METERED	544.80 kVA	125%	681.00	kVA	_	*INCLUDES I	VEC 2	20.87 ADJ FA0	CTOR 125%, SE	ASONAL ADJ FACTOR OF 1,	
	TOTAL	563.18 kVA		699.43	kVA		OCC ADJ FA	CTOR	OF 1. PEAK L	IT ILI TY OF 544.	8kVA ON	
		677.4 AMPS		841.3	AMPS		SEPT 2020 I	ITII IT	Y DURING ME	TERING OF 54	4 8kVA Note:	

	PANEL NAME: P43)					PANEL					MFGR: SQUARE D	
	LOCATION: TRE	STLE					VOLT			1	OF	1	CAT#	
	FED FROM: SB4	20 VIA T432			3 PHASI	*		ACE MOUNT	PNL					
	kAIC SYM		12	200 AMP	MAIN CB		AMP E	BUS			CU BUS		100% NEUTRAL	
CKT.						CB			ъ		CB			C
NO.		CIRCUIT	DESCRIP	TION		AMPS	POL	kVA	Н	kVA	AMPS		CIRCUIT DESCRIPTION	N
1	PANEL 434					300/	3	6.00	а	0.00	- 1	3	SPACE	2
	-					-		6.00	b	0.00	-		•	
	-					-		6.00	C	0.00	-	i	-	
3	UNKNOWN					1	3	0.00	а	0.00	- 1	3	UNKNOWN	4
	-					-		0.00	b	0.00			-	
	-					-		0.00	C	0.00	-		-	
5	UNKNOWN					- 1	3	0.00	а	0.00	- 1	3	UNKNOWN	-
	-					•		0.00	b	0.00	-		•	
	-					-		0.00	C	0.00			-	
7	UNKNOWNHORE P	OWER P.O. BO	TAC			- 1	3	0.00	а	0.00	- 1	3	UNKNOWN	-
	-					-		0.00	b	0.00			-	
	-					-		0.00	C	0.00	-		-	
9	UNKNOWN					1	3	0.00	а	0.00	/	3	UNKNOWN	1
	-					•		0.00	р	0.00			-	
	-					-		0.00	C	0.00			-	
LOAD	SUM	CONN LO	AD	FACTOR	CALC LOAD				NOTI	ES				
LIGH1	TING	0.00	kVA	125%	0.00	kVA			T432	- 750KVA TRA	ANSFORM	MER, 48	0 DELTA: 480V DELTA	
RECE	PTACLES	0.00	kVA	50%>10kVA	0.00	kVA			1. EX	ISTING SCHE	DULE FO	R REFI	ERENCE ONLY.	
ALL N	MOTORS	18.00	kVA	100%	18.00	kVA								
LRGS	T MOTOR	0.00	kVA	125%	0.00	kVA								
KITCH	HEN	0.00	kVA	100%	0.00	kVA								
MISC	ELLANEOUS	0.00	kVA	100%	0.00	kVA								
NON-	COINCIDENT	0.00	kVA	0%	0.00	kVA								
EXIST	METERED	274.94	kVA	158%	433.03	kVA		*INCLUDES N	IEC 2	20.87 ADJ FA0	CTOR 125	%, SEA	ASONAL ADJ FACTOR OF 1.26,	
	TOTAL	292.94	kVA		451.03	kVA		OCC ADJ FAC	CTOR	OF 1. PEAK U	JTILITY O	F 544.8	kVA ON	
		352.4	AMPS		542.5	AMPS		SEPT 2020, U	TILIT	Y DURING ME	TERING	OF 433	2k\/A Note	

	∕062S∣ipF†oDrive	:On/PE/PE_PD/CAD/_Contract_Plan	s/100% <i>1</i> 7w06	2e06	_01.dlv
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SUBMITTAL DATE: 1/11/22	morin				PROJ.NO.
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MAR PROJ ENGR: T. CASTOR	1/21/2022				JOB NUMBER
DGN ENGR MNGR:					17W062
ASST SECRETARY: P. RUBSTELLO		REVISION	DATE	ΒY	00****





Washington State

Department of Transportation

WASHINGTON STATE FERRIES

SR305
EAGLE HARBOR MAINTENANCE FACILITYSLIP F DRIVE ON TIE-UP SLIP
ELECTRICAL SCHEDULES I

SHEET
112
0F
124
SHEETS

Р	ANEL NAME: P434	(EXISTING)					PANEL	SCHI	EDULE			MFGR:	SQUARE D	
	LOCATION: TRES				480	VOLT	SECT	ION:	1	OF 1		CAT#	1215944568017	70001
	FED FROM: P432			3 PHASE	E, 3 WIRE	SURF#	ACE MOUNT	PNL						
	kAIC SYM		300 AMP	MAIN CB	300	AMP B	BUS			CU BUS		100% NEUTRAL		
CKT.					CB			Р		CB				C
NO.		CIRCUIT DESC	RIPTION		AMPS F	POL	kVA	Н	kVA	AMPS PO		CIRCUIT	DESCRIPTION	N
1 F	-H1, HOIST (NEW)			(NOTE 1)	30/ 3	3	3.00	а	0.00	/ 3	SPACE			:
-				•			3.00	b	0.00	•	-			
-							3.00	C	0.00	•	-			
3 F	-H2, HOIST (NEW)			(NOTE 1)	30/ 3	3	3.00	а	0.00	/ 3	SPACE			4
-							3.00	b	0.00	•				
-					-		3.00	С	0.00	-				
5 L	INKNOWN				15/ 3	3	0.00	а	0.00	100/ 3	REC -	SHORE POWER T	RILER XFMR	(
-							0.00	b	0.00	-				
-							0.00	C	0.00	-				
7 R	REC - SHORE POV	WER P.O. BOAT			100/ 3	3	0.00	а	0.00	150/ 3	REC -	SHORE POWER		}
-					-		0.00	b	0.00	-				
-					-		0.00	С	0.00	-				
9 N	MAIN CIRCUIT BREAK	(ER			300/ 3	3	0.00	а	0.00	150/ 3	REC -	SHORE POWER		1
-					-		0.00	b	0.00	-	-			
					•		0.00	С	0.00	-	-			
LOAD S		CONN LOAD	FACTOR	CALC LOAD				NOT						
LIGHTIN		0.00 kVA	125%	0.00	kVA			1.	PROVIDE NE	W CIRCUIT BE	REAKER FOR	R NEW LOAD.		
RECEP		0.00 kVA	50%>10kVA	0.00										
ALL MO		18.00 kVA	100%	18.00										
LRGST		0.00 kVA	125%	0.00										
KITCHE		0.00 kVA	100%	0.00										
	LANEOUS	0.00 kVA	100%	0.00										
	DINCIDENT	0.00 kVA	0%	0.00				.EO 0	00.07.40.154	TOD 4050/ 0		D E O T O D O E O O		
	METERED	43.48 kVA	158%	68.48								DJ FACTOR OF 1.26,		
T	OTAL	61.48 kVA		86.48						ITILITY OF 544				
		74.0 AMPS	i	104.0	AMPS		SEPT 2020. U	JILIT	Y DURING ME	TERING OF 43	31.4kVA. Not	e:		

	PANEL NAME: P237	(EXISTING)				PANEL	SCH	EDULE			MFGR: SQUARE D	
	LOCATION: TRES	TLE				208Y/120 VC	DLT SECT	ION:	1	OF	1	CAT# MPZB15T2FSS	
	FED FROM: P473-4	4 V I A T237			3 PHASE	E, 4 WIRE IN	TEGRATED PNL						
	kAIC SYM			40 AMP	MAIN CB	40 AN	IP BUS			CU BUS		100% NEUTRAL	
CKT.						CB		Р		CB			Ckt
NO.		CIRCUIT	DESCRI	PTION		AMPS PC	L kVA	Ξ	kVA	AMPS	POL	CIRCUIT DESCRIPTION	No.
1	LTG - SLIP F CAR				(NOTE 2)	20/ 1	0.68	а	0.00	60/	3	SECONDARY MAIN	
3	PHOTOCELL - SLIP F					20/ 1	0.00	b	0.00	-		•	
5	UNKNOWN					20/ 1	0.00	С	0.00			-	
7	UNKNOWN					20/ 2	0.00	а	0.00	20/	1	UNKNOWN	2
9	UNKNOWN					•	0.00	b	0.00	20/	1	UNKNOWN	4
11	•					20/ 1	0.00	C	0.00	20/		UNKNOWN	6
13	REC SLIP F HEA	D FRAME			(NOTE 1)	20/ 1	0.36	а	0.00	20/	1	UNKNOWN	8
15	SPACE						0.20	b	0.00			SPACE	10
17	SPACE						0.00	С	0.00			SPACE	12
19	SPACE						0.00	а	0.00			SPACE	14
21	SPACE						0.00	b	0.00			SPACE	16
23	SPACE						0.00	C	0.00			SPACE	18
25	SPACE						0.00	а	0.00			SPACE	20
27	SPACE						0.00	b	0.00			SPACE	22
29	SPACE						0.00	С	0.00			SPACE	24
LOAD		CONN LC			CALC LOAD			NOT					
LIGHT			kVA	125%	0.85							RISE, TYPE 3R	
	PTACLES		kVA	50%>10kVA	0.36			INCO	OM I NG 40A MC	_			
	1OTORS		kVA	100%	0.00			1.				JND FAULT CIRCUIT BREAKER FOR NEW LOAD.	
	T MOTOR		kVA	125%	0.00			2.	REVISE LOA	D ON EXIS	STING	BREAKER.	
KITCH				100%	0.00								
	ELLANEOUS		kVA	100%	0.00								
	COINCIDENT		kVA	0%	0.00								
EXIST	METERED	8.50		125%	10.63						,	ASONAL ADJ FACTOR OF 1,	
	TOTAL		kVA		11.84				R OF 1. PEAK L				
		26.5	AMPS		32.9	AMPS	SEPT 2020. U	JTILIT	Y DURING ME	TERING ()F 544	.8kVA. Note:	

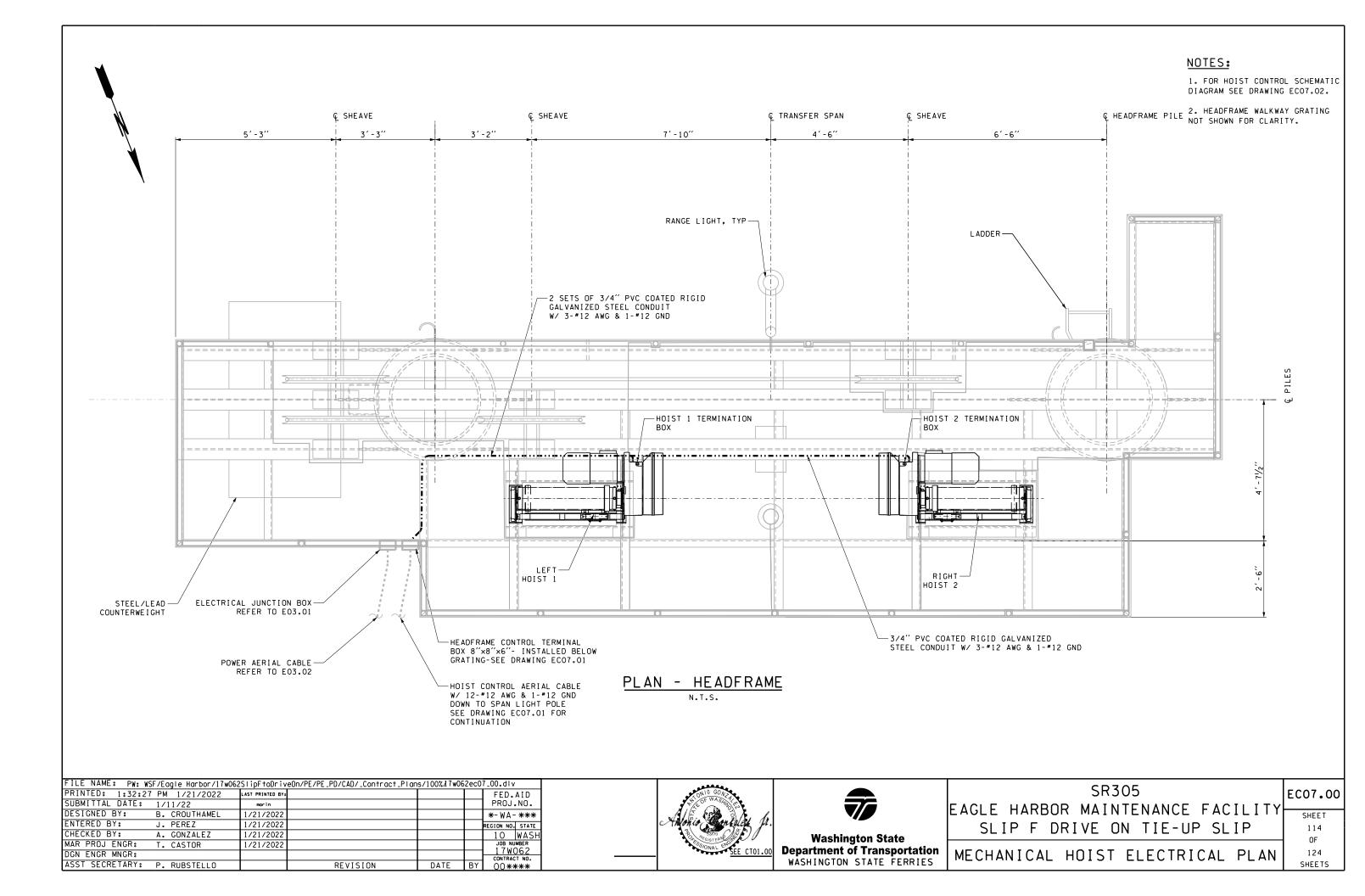
	PANEL NAME: P4:	37 (EXISTING)					PANEL	SCH	EDULE			MFGR: SQUARE D	
	LOCATION: TR	ESTLE			480	VOL	T SECT	ION:	1	OF	1	CAT# 12159445680180000	
	FED FROM: SB	420		3 PHAS	E, 3 WIRE	SURI	FACE MOUNT	PNL					
	kAIC SYM		225 AMP	MAIN CB	225	AMP	BUS			CU BUS		100% NEUTRAL	
CKT.					CB			Р		CE	3		Ck
NO.		CIRCUIT DESCR	IPTION		AMPS	POL	kVA	Н	kVA	AMPS	POL	CIRCUIT DESCRIPTION	No
1	PNL P437-1 GANG	WAY HOIST			15/	3	0.00	а	0.00	20/	3	LTG - TRASK PIER	2
	•				-		0.00	b	0.00				
	•				-		0.00	С	0.00				
3	REC - SHORE F	POWER (E)			60/	3	0.00	а	0.52	25/	3	PANEL P237 VIA XFMR T237	4
	-				-		0.00	b	0.00				
	-				-		0.00	С	0.52				
5	REC - SHORE F	POWER			100/	3	0.00	а	0.00	60/	/ 3	REC - SHORE POWER (W)	6
	•				-		0.00	b	0.00			-	
	•				-		0.00	С	0.00				
LOAD	SUM	CONN LOAD	FACTOR	CALC LOAD				NOT	ES				
LIGH	FING	0.68 kVA	125%		kVA					DULE FO	R REF	ERENCE ONLY.	
RECE	PTACLES	0.36 kVA	50%>10kVA	0.36	kVA								
ALL N	MOTORS	0.00 kVA	100%	0.00	kVA								
LRGS	T MOTOR	0.00 kVA	125%	0.00	kVA								
KITCH	HEN	0.00 kVA	100%	0.00	kVA								
MISC	ELLANEOUS	0.00 kVA	100%	0.00	kVA								
NON-	COINCIDENT	0.00 kVA	0%	0.00	kVA								
EXIS1	METERED	19.62 kVA	125%	24.53	kVA		*INCLUDES N	IEC 2	20.87 ADJ FAC	TOR 125	5%, SE	ASONAL ADJ FACTOR OF 1,	
	TOTAL	20.66 kVA		25.74	kVA	_	OCC ADJ FAC	CTOF	OF 1. PEAK L	TILITY O	F 544.	BKVA ON	
		24.9 AMPS		31.0	AMPS		SEPT 2020. U	TILIT	Y DURING ME	TERING	OF 544	I.8kVA. Note:	

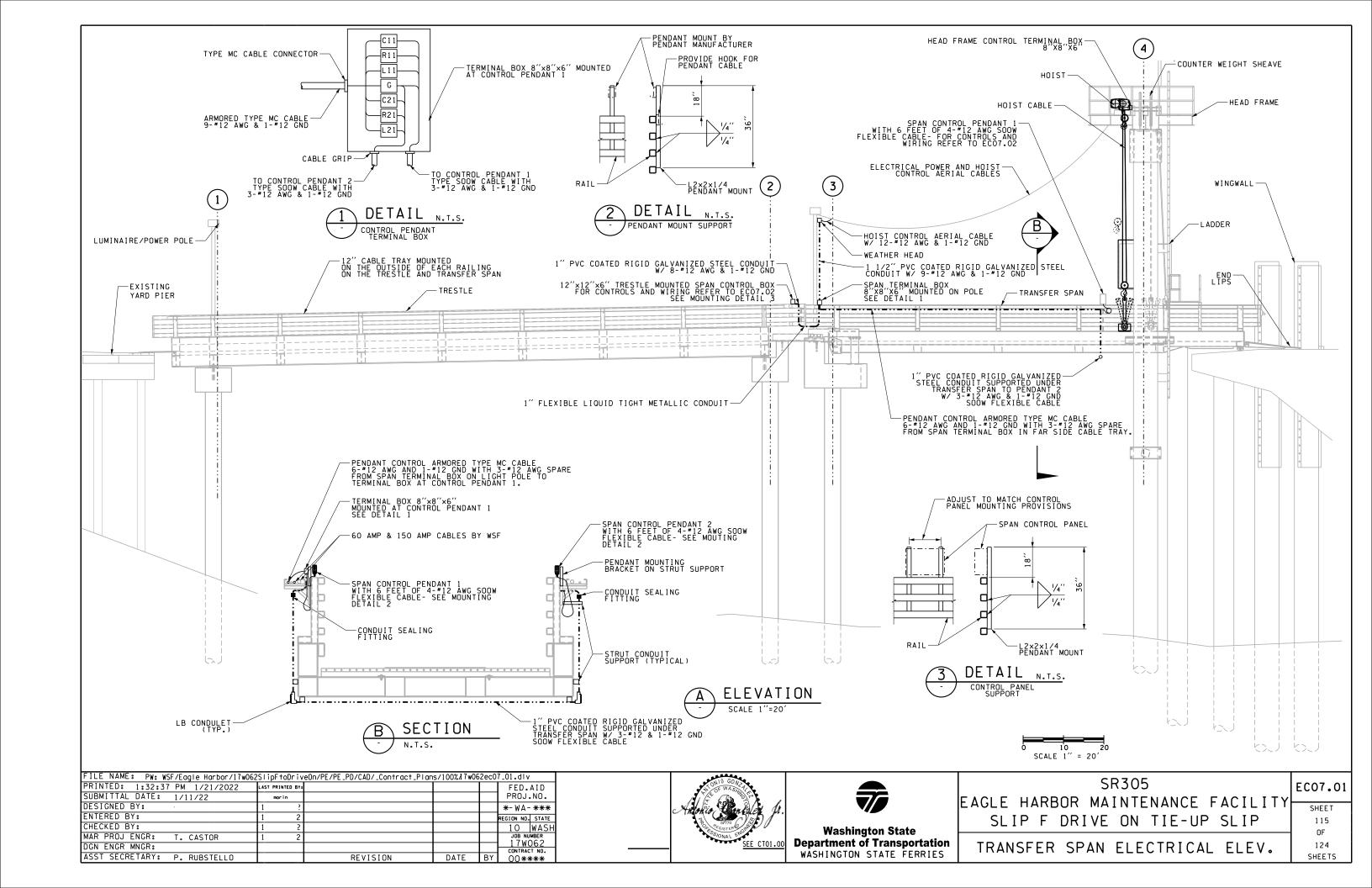
	w062SlipFtoDriv	eOn/PE/PE_PD/CAD/_Contract_Plan	ns/100% <i>1</i> 7w06	2e06	_02.dlv
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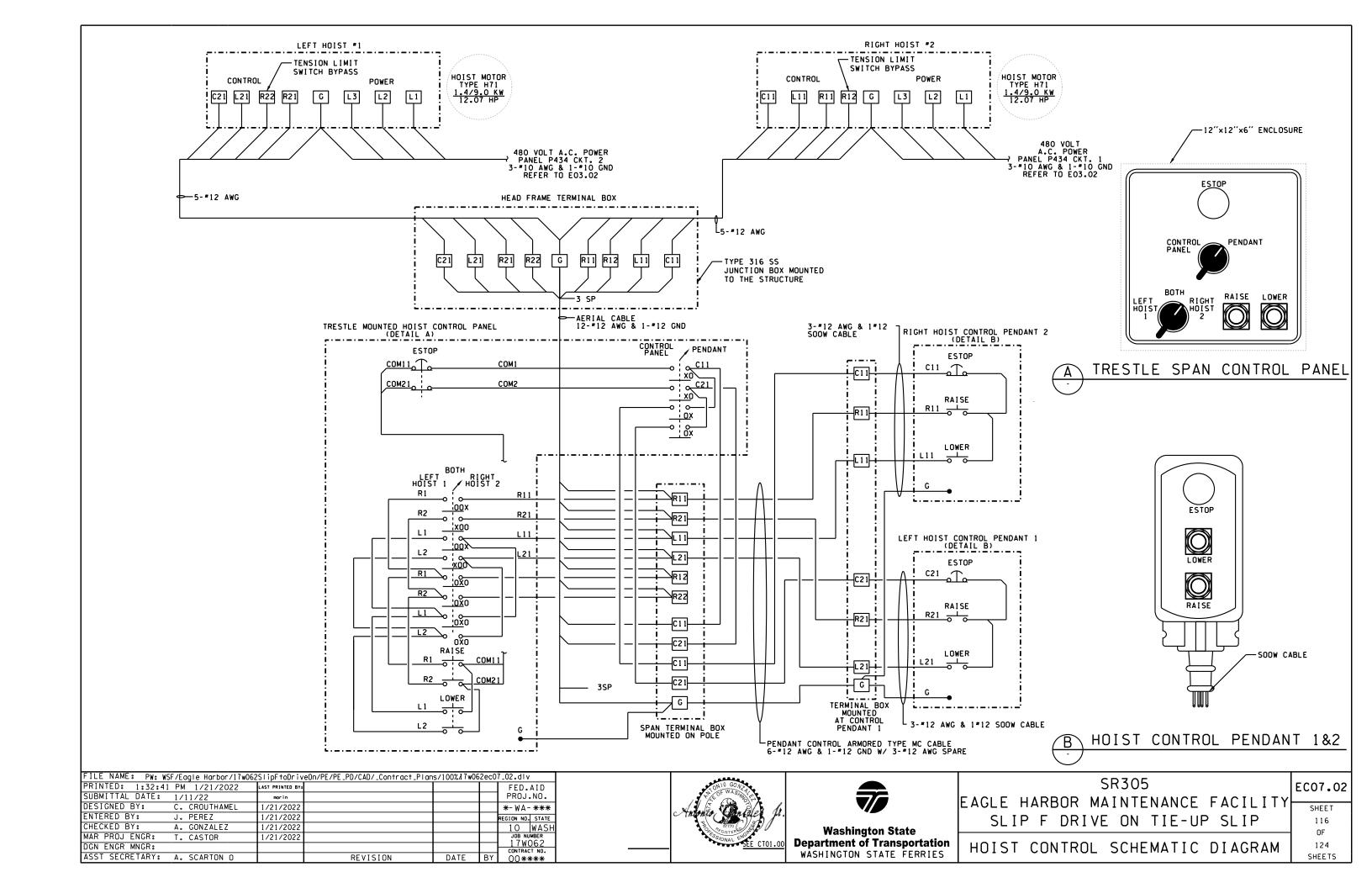


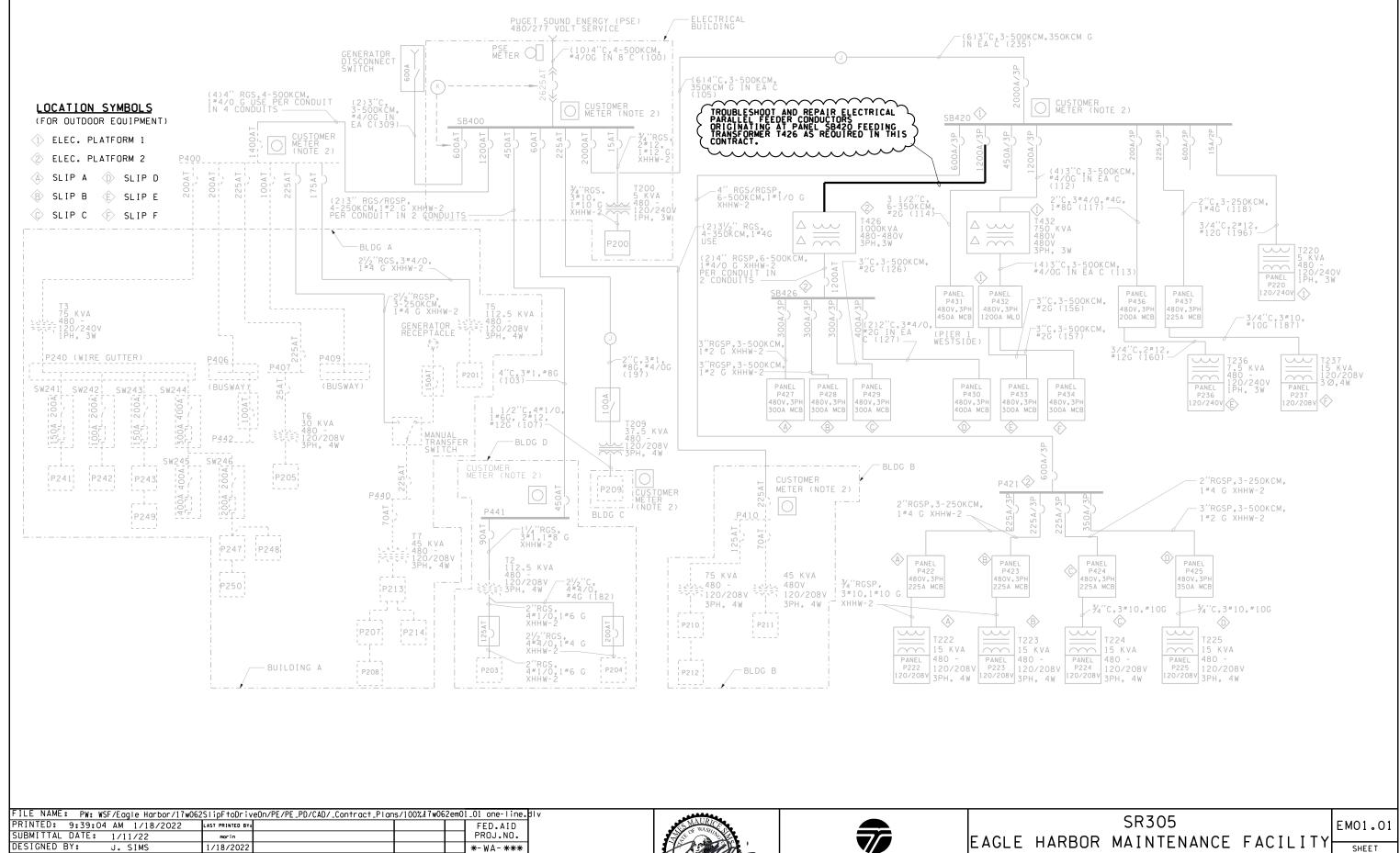


SR305 EAGLE HARBOR MAINTENANCE FACILITY	E06.02
SLIP F DRIVE ON TIE-UP SLIP	SHEET 113 OF
ELECTRICAL SCHEDULES II	124 SHEETS









EGION NO. STATE

10 WASH JOB NUMBER 17W062

CONTRACT NO.

DATE

ENTERED BY:

CHECKED BY:

MAR PROJ ENGR:

DGN ENGR MNGR:

M. MORIN

K. BROCK

ASST SECRETARY: P. RUBSTELLO

T. CASTOR

1/18/202

1/18/2022

1/18/2022

REVISION



Washington State Department of Transportation WASHINGTON STATE FERRIES

SLIP F DRIVE ON TIE-UP SLIP SB426 FEEDER REPAIR

ONE-LINE DIAGRAM

117

OF

124

CONSTRUCTION NOTES

- 1) EXISTING CONDUITS ROUTED BELOW THE PIER DECK AND THROUGH THE PILE CAPS.
- 2) EXISTING CONDUITS EMBEDDED IN CONCRETE ON PIER 1.
- EXISTING RACEWAY 112 CONSISTS OF TWO 4" CONDUITS WITH 6-500KCM, 1*4/OG CONDUCTORS IN EACH CONDUIT. ONE B-PHASE CONDUCTOR, IN ONE OF THE CONDUITS, IS SHORTED TO GROUND. THE SHORTED CIRCUIT IS IDENTIFIED AT THE FEEDER BREAKER. DETERMINE WHICH OF THE EXISTING B PHASE CONDUCTORS IS SHORTED AND THE SHORT CIRCUIT LOCATION. TROUBLESHOOT AND DETERMINE WHICH OF THE TWO CONDUIT PATHS, THE SHORTED B PHASE CONDUCTOR IS IN. REMOVE ALL OF THE EXISTING CONDUCTORS, REPLACE THE REMOVED CONDUCTORS WITH NEW CONDUIT PATH WITH THE SHORTED CONDUCTORS REPLACE THE REMOVED CONDUCTORS WITH NEW CONDUCTORS OF THE SAME LENGTH AS THE CONDUCTORS BEING REMOVED. NEW CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 310 REQUIREMENTS FOR PARALLEL CONDUCTORS.
- EXISTING ELECTRICAL CABINETS ARE MOUNTED ON ELEVATED PLATFORM. THE ELEVATED PLATFORM PROVIDES A LARGE CABLE VAULT UNDERNEATH THE CABINETS WITH ACCESS LIDS IN FRONT OF THE CABINETS. EXISTING CONDUCTORS ARE ROUTED EXPOSED IN THE VAULT AND HELD IN PLACE AS SHOWN IN DETAIL 1/EMO1.05. REMOVE AND REPLACE EXISTING CONDUCTORS PER RACEWAY SCHEDULE AND ATTACH NEW CONDUCTORS IN VAULT AS SHOWN IN DETAIL 1/EMO1.05.
- 5 INSULATION RESISTANCE (MEGGAR) TEST ALL EXISTING PARALLEL FEEDER CONDUCTORS BETWEEN PANEL SB420 AND TRANSFORMER T426. RECORD MEGGAR TEST READINGS. COMPILE MEGGAR TEST READINGS INTO A REPORT. SUBMIT MEGGAR TESTING REPORT TO THE ENGINEER.
- 6 EXISTING ELECTRICAL CABINETS ARE MOUNTED ON ELEVATED PLATFORM. THE ELEVATED PLATFORM PROVIDES A LARGE CABLE VAULT UNDERNEATH THE CABINETS WITH ACCESS LIDS IN FRONT OF THE CABINETS.
- 7 EXISTING FEEDER FROM SB420 TO T426 HAS BEEN MODIFIED FOR REDUCED LOAD. SOME OF THE EXISTING FEEDER CONDUCTORS HAVE BEEN DISCONNECTED.

			RACEWAYS	SCHEDULE		
RACEWAY NUMBER	RACEWAY SIZE AND TYPE	CONDUCTOR/CABLE SIZE AND TYPE	FROM	ТО	DESCRIPTION AND NOTES	
111	EX. 4" RGS/RGSP	EX. 6-500KCM, 1-#1/0G XHHW-2	EX. SWITCHBOARD SB420	EX. PANEL P421	EX. PANEL FEEDER P421 (EX. CKT. SB420-1)	
112	EX. 4" RGS/RGSP	6-500KCM, 1-#4/0G XHHW-2	EX. SWITCHBOARD SB420	EX. TRANSFORMER T426	TRANSFORMER T426 FEEDER (CKT. SB420-2) IN 4" CONDUIT THAT CONTAINS SHORTED CONDUCTOR, REMOVE AND REPLACE ALL CONDUCTORS IN THIS CONDUIT FROM SB420 TO T426. REPLACE CONDUCTORS IN COMPLIANCE WITH PARRLLEL CONDUCTOR REQUIREMENTS IN NEC ARTICLE 310	
	EX. 4" RGS/RGSP	EX. 6-500KCM, 1-#4/0G XHHW-2	EX. SWITCHBOARD SB420	EX. TRANSFORMER T426	EX. TRANSFORMER T426 FEEDER (EX. CKT. SB420-2) AFTER PARALLEL CIRCUIT IS REPAIRED, RECONNECT DISCONNECTED CONDUCTORS IN SB420 AND T426, IN COMPLIANCE WITH PARRLLEL CONDUCTOR REQUIREMENTS IN NEC ARTICLE 310	
113	EX. 4" RGSP	6-500KCM, 1-#4/0G XHHW-2	EX. TRANSFORMER	EX. SWITCHBOARD	EX. SWITCHBOARD PARALLEL FEEDER SB426 (EX. CKT. SB420-2)	
114	EX. 4" RGSP EX. 3.5" RGSP	6-500KCM, 1-#4/0G XHHW-2 EX. 6-350KCM, 1-#2G XHHW-2	T426 EX. SWITCHBOARD SB420	SB426 EX. PANEL P431	EX. PANEL FEEDER P431 (EX. CKT. SB420-3)	
197	EX. 2" RGSP	EX. 3-#1, 1-#8G XHHW-2 & EX. 1-#4/0G	EX. JB6	EX. TRANSFORMER T209	EX. TRANSFORMER T209 FEEDER (EX. CKT. SB400-3) & EX. GROUNDING ELECTRODE CONDUCTOR T209	
	EX. 3" RGSP	EX 3-500KCM, 1-350KCMG XHHW- 2				
	EX. 3" RGSP	EX 3-500KCM, 1-350KCMG XHHW- 2				
235	EX. 3" RGSP	EX 3-500KCM, 1-350KCMG XHHW- 2	EX. JB6	EX. SWITCHBOARD	EX. SWITCHBOARD PARALLEL FEEDER SB420 (EX. CKT. SB400-5)	
233	EX. 3" RGSP	EX 3-500KCM, 1-350KCMG XHHW- 2	EA. JBO	SB420	EA. SWITCHBOARD FARALLEL FEEDER 3B420 (EA. CRT. 3B400-3)	
	EX. 3" RGSP	EX 3-500KCM, 1-350KCMG XHHW- 2				
	EX. 3" RGSP	EX 3-500KCM, 1-350KCMG XHHW- 2				
304	EX. 4" RGS	EX. PULL STRING	EX. JB7	EX. PANEL P421	EX. SPARE CONDUIT	
305	EX. 4" RGS	EX. PULL STRING	EX. JB7	EX. TRANSFORMER T426	EX. SPARE CONDUIT	
320	EX. 4" RGSP	EX. PULL STRING	EX. ELECTRICAL PLATFORM 1	EX. JB8	EX. SPARE CONDUIT	

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DESIGNED BY:	J. SIMS	1/18/2022				*-WA-***	
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE	
CHECKED BY:	K. BROCK	1/18/2022				10 WASH	
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER	
DGN ENGR MNGR:						17W062	
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	BY	00****	

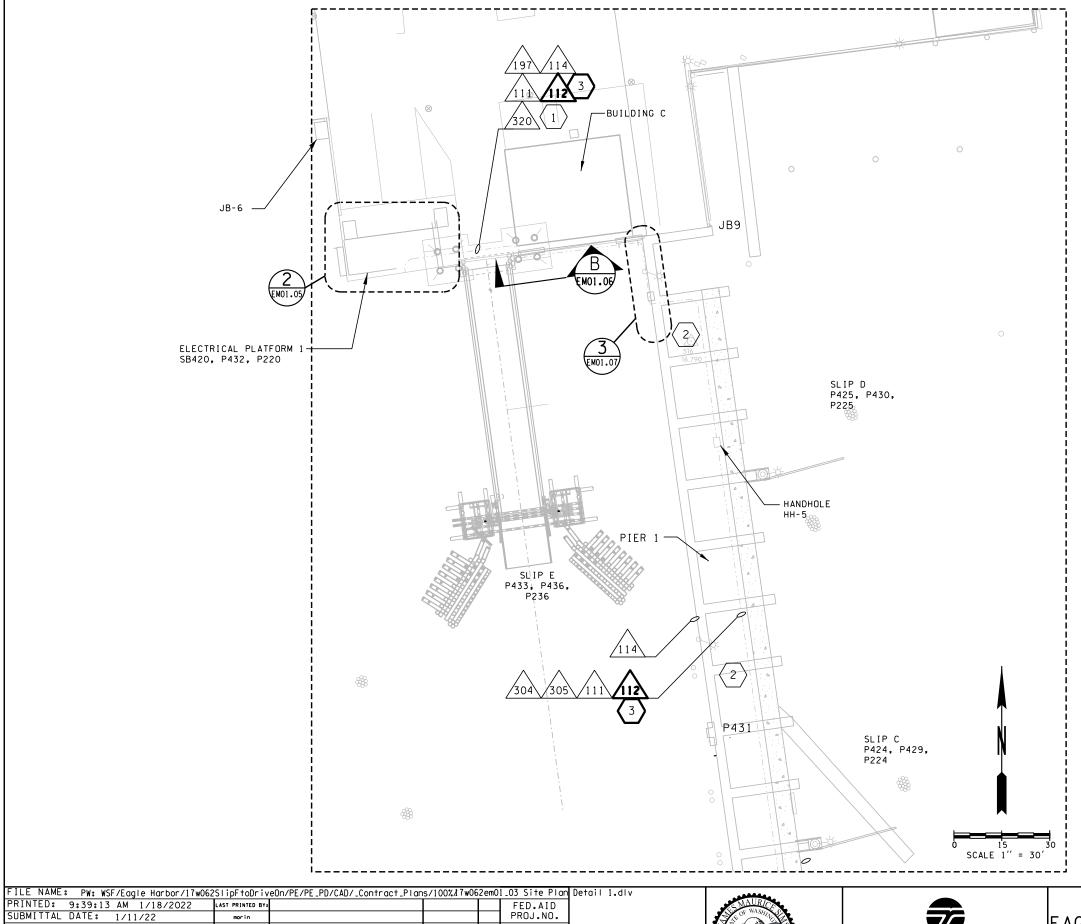




SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
SB426 FEEDER REPAIR, RACEWAY
SCHEDULE AND CONSTRUCTION NOTES

SHEET 118

OF 124 SHEETS



- 1. SEE SHEET EM01.02 FOR CONSTRUCTION NOTES AND RACEWAY SCHEDULE.
- 2. SEE SHEET E01.00 FOR LEGEND AND ABBREVIATIONS.

DESIGNED BY: J. SIMS 1/18/2022 *-WA-*** ENTERED BY: M. MORIN 1/18/2022 CHECKED BY: K. BROCK 1/18/2022

1/18/2022

MAR PROJ ENGR: T. CASTOR

ASST SECRETARY: P. RUBSTELLO

DGN ENGR MNGR:

REGION NO. STATE

10 WASH

JOB NUMBER

17W062

CONTRACT NO.

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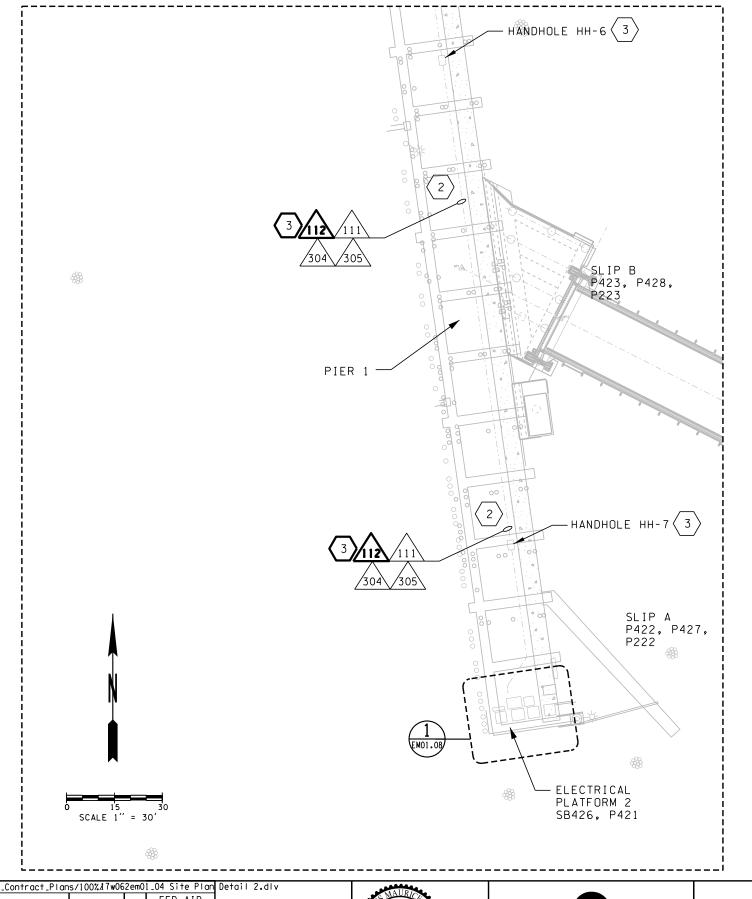




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EM01.03 SHEET 119 OF 124 SHEETS



- 1. SEE SHEET EMO1.02 FOR CONSTRUCTION NOTES AND RACEWAY SCHEDULE.
- 2. SEE SHEET E01.00 FOR LEGEND AND ABBREVIATIONS.

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CHECKED BY: K. BROCK 1/18/2022 10 WASH
MAR PROJ ENGR: T. CASTOR 1/18/2022 JOS NUMBER
17 WO62
DGN ENGR MNGR: CONTRACT NO.
ASST SECRETARY: P. RUBSTELLO REVISION DATE BY 00***





Washington State

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SR305
EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
SB426 FEEDER REPAIR
SITE PLAN DETAIL 2

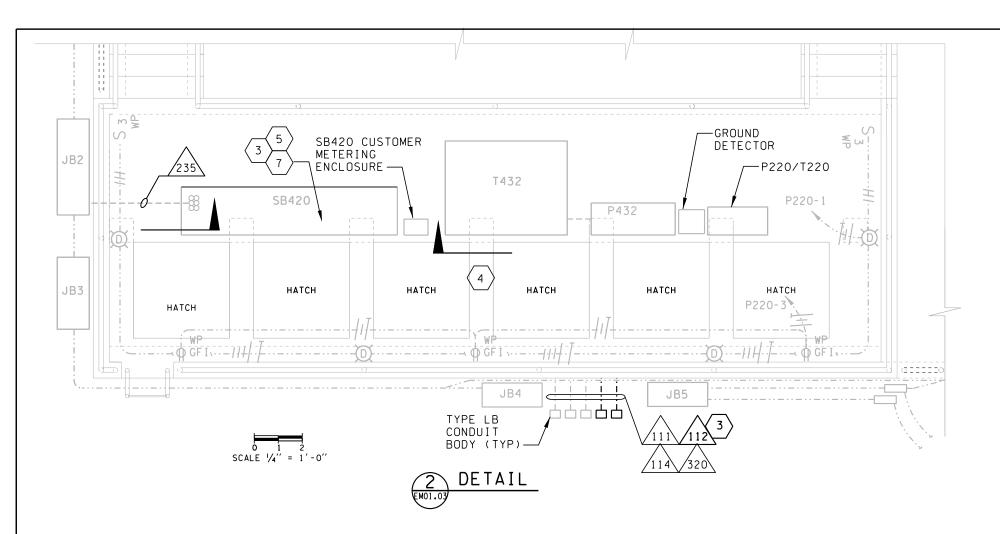
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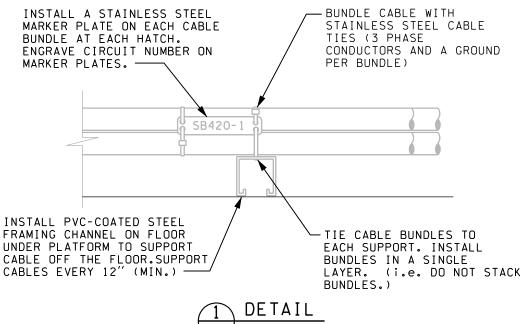
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CONTRACT NO.

DATE

GENERAL NOTES:

- 1. SEE SHEET EMO1.02 FOR CONSTRUCTION NOTES AND RACEWAY SCHEDULE.
- 2. SEE SHEET E01.00 FOR LEGEND AND ABBREVIATIONS.



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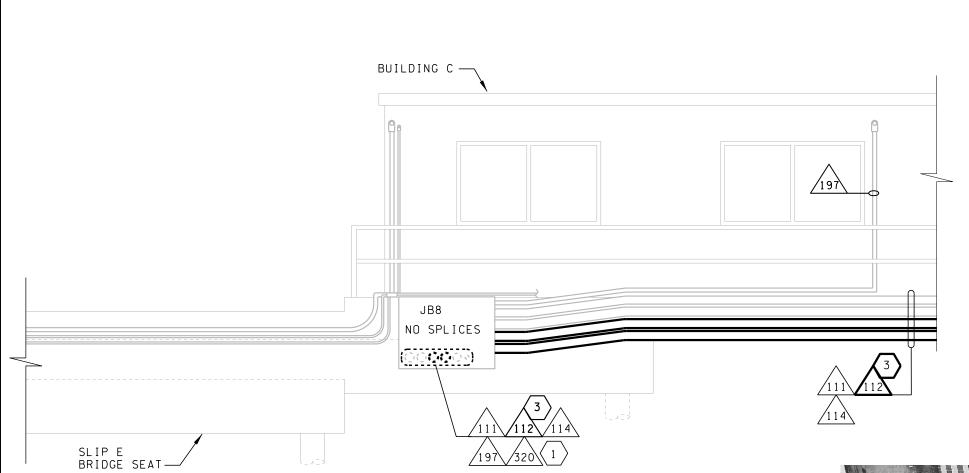






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EAGLE HARBOR MAINTENANCE FACILITY
SLIP F DRIVE ON TIE-UP SLIP
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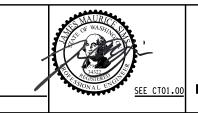
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- 1. SEE SHEET EM01.02 FOR CONSTRUCTION NOTES AND RACEWAY SCHEDULE.
- 2. SEE SHEET E01.00 FOR LEGEND AND ABBREVIATIONS.



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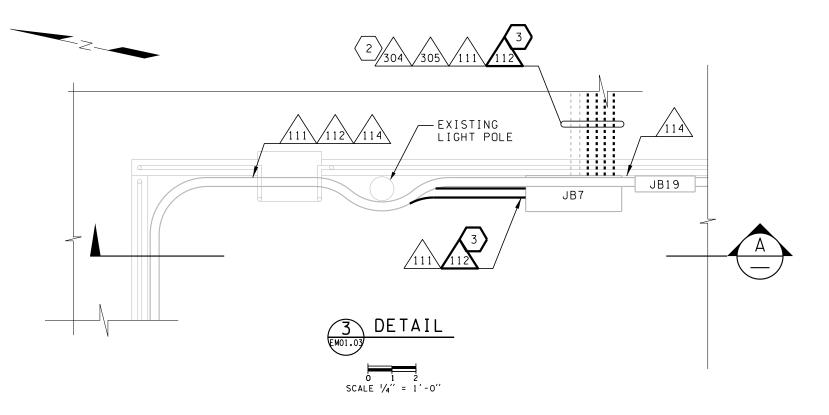
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Department of Transportation

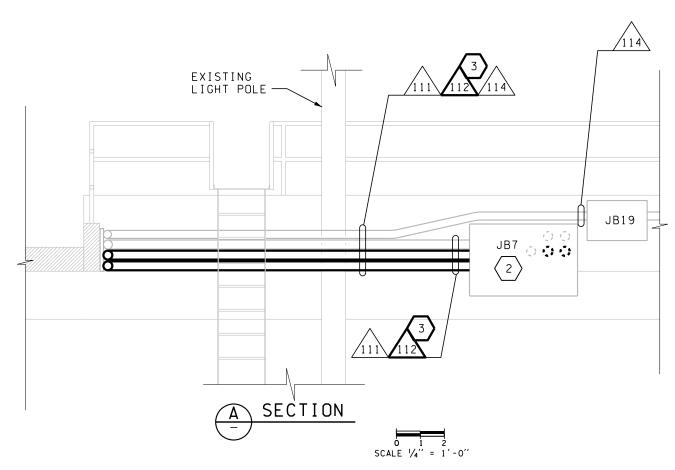
WASHINGTON STATE FERRIES

	EM01.06
EAGLE HARBOR MAINTENANCE FACILITY SLIP F DRIVE ON TIE-UP SLIP	SHEET 122 OF
SB426 FEEDER REPAIR ELEVATION 1	124

OF 124 SHEETS



- 1. SEE SHEET EM01.02 FOR CONSTRUCTION NOTES AND RACEWAY SCHEDULE.
- 2. SEE SHEET E01.00 FOR LEGEND AND ABBREVIATIONS.





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DESIGNED BY:	J. SIMS	1/18/2022				*-WA-***	
ENTERED BY:	M. MORIN	1/18/2022				REGION NO. STATE	
CHECKED BY:	K. BROCK	1/18/2022				10 WASH	
MAR PROJ ENGR:	T. CASTOR	1/18/2022				JOB NUMBER	
DGN ENGR MNGR:						17W062	
ASST SECRETARY:	P. RUBSTELLO		REVISION	DATE	ΒY	00****	

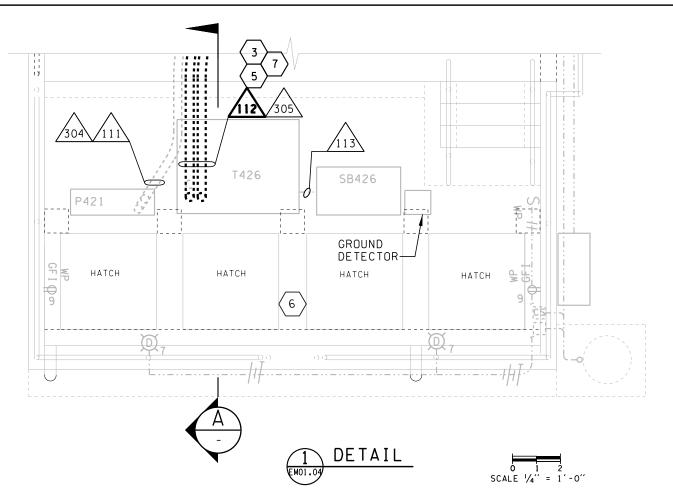


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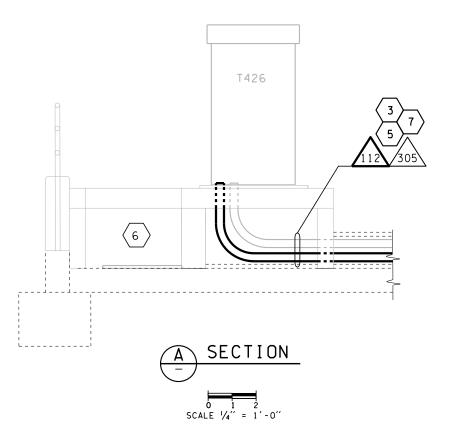
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	EM01.07
EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	123 OF
SB426 FEEDER REPAIR ELEVATION 2	124





- 1. SEE SHEET EM01.02 FOR CONSTRUCTION NOTES AND RACEWAY SCHEDULE.
- 2. SEE SHEET E01.01 FOR LEGEND AND ABBREVIATIONS.



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Washington State Department of Transportation
WASHINGTON STATE FERRIES

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EAGLE HARBOR MAINTENANCE FACILITY	SHEET
SLIP F DRIVE ON TIE-UP SLIP	124
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SR426 FFFDFR RFPAIR DFTAILS 2	124